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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS.
NORTH AMERICAN COASTAL MARINE AREAS - REVISED.
ATLANTIC AND GULF COASTS. VOLUME I - REVISED.
AREA 1 - BELLE ISLE STRAIT. AREA 2 - OSV BRAVO.
AREA 3 - NE NEWFOUNDLAND COAST. AREA 4 - SE
NEWFOUNDLAND COAST. AREA 5 - PLACENTIA BAY SOUTH.
AREA 6 - CABOT STRAIT. AREA 7 - ANTICOSTI ISLAND

Naval Weather Service Command
Washington, D. C.

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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS

NORTH AMERICAN COASTAL MARINE AREAS - REVISED

ATLANTIC AND GULF COASTS

VOLUME 1

AREA 1 - BELLE ISLE STRAIT

AREA 2 - OSV BRAVO

AREA 3 - NE NEWFOUNDLAND COAST

AREA 4 - SE NEWFOUNDLAND COAST

AREA 5 - PLACENTIA BAY SOUTH

AREA 6 - CABOT STRAIT

AREA 7 - ANTICOSTI ISLAND



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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The data contained in these tables were obtained from tape data Family 11 (TDF-11), Marine Surface Observations. TDF-11 was primarily funded by the Naval Weather Service Command and selected by NWSD Asheville as the most comprehensive collection of marine surface observations from which to develop a series of coastal marine summaries. The source was punched cards of weather observations taken aboard vessels of varying registry. They were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there is no concrete evidence to prove or disprove the validity of questionable data.

THE

TABLES

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (*) indicates percentage frequency > 0 and $< .05$. A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH = low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

The geographic position shown on the tables is the central position (centroid) of the observations within the area. This value may fall outside irregular areas.

Also, it should be noted that these data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible, thus biasing our data toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17. No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from selected decks only and the overall period indicates the period of record of this data source. The primary period for these tables is not shown.

Annual values are computed on the basis of the sum of the monthlies divided by the number of months.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19. The series of summaries appear in numerical order by area number.

Table 1 - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

Table 2 - Percentage Frequency of Weather Occurrence by Hour (GMT).

Table 3 - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (8 pts.).

Table 3A - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

Table 4 - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

Table 5 - Percentage Frequency of Total Cloud Amount (0 kts.) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

Table 6 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Wind Direction (8 pts.).

Table 7 - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH > 4/8) and Visibility (Nautical Miles).

Table 7A - Percentage Frequency of Low Cloud Amount (or Middle Cloud Amount if Low Clouds are not present). and Percentage Frequency of Sky Obscured. Amounts are in Oktas.

Table 8 - Percentage Frequency of Wind Direction (8 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles).

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

Table 10 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Hour (GMT).

Table 11 - Percentage Frequency of Visibility (Nautical Miles) by Hour (GMT).

Table 12 - Cumulative Percentage Frequency of Ranges of Visibility (Nautical Miles) and Ceiling Height (feet, NH > 4/8) by Hour (GMT).

Table 13 - Percentage Frequency of Relative Humidity (%) by Air Temperature (° F.).

Table 14 - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature (° F.).

Table 15 - Means, Extremes, and Percentiles of Air Temperature (° F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

Table 16 - Percentage Frequency of Relative Humidity (%) by Hour (GMT).

Table 17 - Percentage Frequency of Air Temperature (° F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference (° F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

Table 18 - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized.

Table 19 - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

Tables 1-19 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

Note: In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

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Table 20 - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature ($^{\circ}$ F.).

Table 21 - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values and percentile values.

Copies of this document are obtainable from the National Technical Information Service (NTIS), Springfield, Virginia 22151.

DIRECTION AND WEATHER CODES

CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

A reduced bias system was employed in converting wind and wave directions to 8 points. This method attaches weighting values to observations which overlap two different 8 point sectors and treats them as "decimal observation counts." These decimal quantities are rounded to whole numbers for presentation as "observational counts" in the tables. Figures 1-4 below show the 8 point system with other systems superimposed.

Note: Because of rounding, sub-total sums of "observational counts" may not equal grand totals.

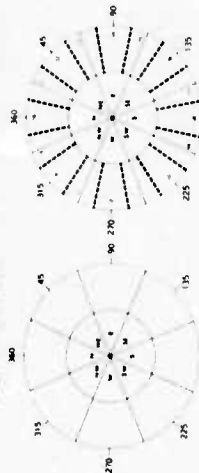


Fig 1. The 8 point direction system.

Fig 2. The 16 point direction system superimposed on the 8 point system.

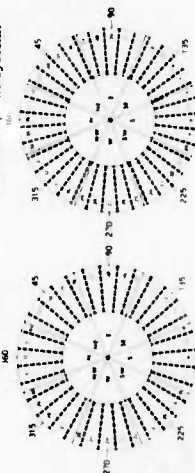


Fig 3. The 32 point direction system superimposed on the 8 point system.

Fig 4. The 36 point direction system superimposed on the 8 point system.

VISIBILITY (VV)		PRESENT WEATHER (1960 WMO CODE 4677)	
CODE	INTERPRETATION (NAUTICAL MILES)	CODE	INTERPRETATION
90-93	VV<1/2	58-59 60-65 91-94 (68-69, 95, 97 IF TEMP > 40° F)	RAIN
94	1/2 ≤ VV < 1	80-82, (83-84 IF TEMP > 40° F) 50-55, 58-59	RAIN SHOWERS DRIZZLE
95	1 ≤ VV < 2	56-57 66-67	FREEZING PRECIPITATION
96	2 ≤ VV < 5	70-75, 85-86 (68-69, 83-84, 95, 97 IF TEMP < 40° F)	SNOW
97	5 ≤ VV < 10	76-79	OTHER FROZEN PRECIPITATION
98	10 ≤ VV < 25	87-90 93-94 96, 99	HAIL
99	VV ≥ 25	13, 17 19, 29 95-99	THUNDER LIGHTNING THUNDERSTORM

NOTE: < means less than;
> means greater than;
≤ means less than or equal to;
≥ means greater than or equal to.

NOTE: The following WMO codes were counted in two weather categories. 58-59 (rain and drizzle); 68-69 (rain and snow); 93-94 (rain and hail); 96 and 99 (hail and thunder/lightning/thunderstorm); 95 and 97 (snow and thunder/lightning/thunderstorm), or (rain and thunder/lightning/thunderstorm).

WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25}	<1	12	>5.75 to 6.25}	20-22	30	>14.75 to 15.25}	
01	>.25 to .75}	1-2	13	>6.25 to 6.75}		31	>15.25 to 15.75}	
02	>.75 to 1.25}	3-4	14	>6.75 to 7.25}	23-25	32	>15.75 to 16.25}	49-60
03	>1.25 to 1.75}	5-6	15	>7.25 to 7.75}		33	>16.25 to 16.75}	
04	>1.75 to 2.25}	7	16	>7.75 to 8.25}		34	>16.75 to 17.25}	
05	>2.25 to 2.75}	8-9	17	>8.25 to 8.75}	26-32	35	>17.25 to 17.75}	
06	>2.75 to 3.25}	10-11	18	>8.75 to 9.25}		36	>17.75 to 18.25}	
07	>3.25 to 3.75}	12	19	>9.25 to 9.75}		37	>18.25 to 18.75}	61-70
08	>3.75 to 4.25}	13-16	20	>9.75 to 10.25}		38	>18.75 to 19.25}	
09	>4.25 to 4.75}		21	>10.25 to 10.75}	33-40	39	>19.25 to 19.75}	
10	>4.75 to 5.25}	17-19	22	>10.75 to 11.25}		40	>19.75 to 20.25}	
11	>5.25 to 5.75}		23	>11.25 to 11.75}		41	>20.25 to 20.75}	
			24	>11.75 to 12.25}		42	>20.75 to 21.25}	
			25	>12.25 to 12.75}		43	>21.25 to 21.75}	71-86
			26	>12.75 to 13.25}		44	>21.75 to 22.25}	
			27	>13.25 to 13.75}	41-48	45	>22.25 to 22.75}	
			28	>13.75 to 14.25}		46	>22.75 to 23.25}	
			29	>14.25 to 14.75}		47	>23.25 to 23.75}	
						48	>23.75 to 24.25}	
						49	>24.25 to 24.75}	
						50	>24.75 to 25.25}	
						51	>25.25 to 25.75}	
						52	>25.75 to 26.25}	
						53-99	>26.25 to 49.75}	≥87
						Indeterminate-INDET		

PERIOD: (PRIMARY) 1966-1970
(OVER-ALL) 1882-1970

JANUARY

AREA 0001 BELLE ISLE STRAIT
50.4N 57.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN CHMR	DRFL	FRFG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG MD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WFA
N	2.9	.0	.0	.0	23.9	.0	.0	23.9	2.2	.0	7.2	.0	.0	.0	66.7
NE	.0	6.1	.0	.0	19.7	.0	.0	19.7	.0	.0	39.4	.0	.0	.0	40.9
E	22.6	.0	.0	.0	20.8	.0	.0	43.4	.0	.0	.0	.0	.0	.0	36.6
SE	17.0	.0	.0	3.1	9.4	.0	.0	27.5	.0	.0	.0	.0	.0	.0	62.5
S	4.5	.0	.0	3.4	12.6	.0	.0	40.4	.0	.0	4.5	.0	.0	.0	55.1
SW	1.1	.0	.0	.0	28.6	.0	.0	29.7	.0	.0	4.4	.0	.0	.0	65.9
W	2.4	.0	.0	.0	33.3	.0	.0	35.7	.0	.0	2.4	.0	.0	.0	61.9
NW	.0	.0	.0	2.5	27.4	2.5	.0	32.5	3.2	.0	8.3	2.5	.0	.0	53.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	14.3	.0	.0	.0	14.3	.0	.0	28.6	.0	.0	.0	.0	.0	.0	71.4
TOT PCT	4.6	.5	.0	1.0	26.2	.5	.0	31.8	1.0	.0	7.7	.5	.0	.0	59.0
TOT OBS:	195														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN CHMR	DRFL	FRFG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG MD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WFA
0000	5.3	.0	.0	1.8	35.1	.0	.0	42.1	.0	.0	3.5	.0	.0	.0	44.4
0600	.0	.0	.0	.0	21.7	4.3	.0	26.1	4.3	.0	.0	.0	.0	.0	69.0
1200	5.3	.0	.0	1.8	22.8	.0	.0	29.8	1.8	.0	10.5	.0	.0	.0	57.9
1800	4.8	1.6	.0	.0	25.8	.0	.0	29.0	.0	.0	11.3	1.6	.0	.0	58.1
TOT PCT	4.5	.5	.0	1.0	27.1	.5	.0	32.7	1.0	.0	7.5	.5	.0	.0	58.3
TOT OBS:	199														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	3.1	8.5	5.6	.4	.0		17.5	18.8	17.7	21.9	19.6	19.4	20.2	17.3	13.0	19.0	
NE	.0	.7	2.2	1.5	.7	1.0		8.2	30.1	7.9	12.5	8.9	.0	9.0	16.7	4.7	10.7	
E	.0	.5	2.2	2.5	1.4	.0		6.6	23.6	6.7	12.5	14.3	.0	4.3	.0	9.7	12.5	
SE	.0	1.5	1.7	.1	1.1	.0		4.5	17.3	3.7	3.1	.0	11.1	5.3	.0	4.7	8.9	
S	.0	4.0	3.4	2.1	1.4	.0		11.1	17.2	7.9	15.6	7.1	11.1	9.0	22.9	14.1	5.4	
SW	.0	1.6	4.1	4.6	1.0	.0		11.3	21.4	14.6	14.1	7.1	11.1	12.2	6.3	8.3	14.3	
W	.0	2.7	7.4	3.1	3.0	.5		17.2	22.2	17.1	17.2	14.3	19.4	15.4	33.3	18.2	7.1	
NW	.0	5.7	10.1	3.4	1.0	.0		20.1	16.2	19.5	3.1	28.6	27.0	20.2	8.3	29.2	7.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.5							3.5	.0	4.9	.0	.0	.0	4.3	.0	2.1	14.3	
TOT OBS	7	40	81	46	24	3	201		19.5	41	16	14	9	47	12	48	14	
TOT PCT	3.5	19.9	40.3	22.9	11.9	1.5		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.4	8.6	4.9	3.4	.4		17.5	18.8	18.9	19.6	18.6	14.5	
NE	.5	1.2	1.2	3.1	2.1		8.2	30.1	9.2	3.4	10.6	6.0	
E	.0	1.4	2.9	2.4	.0		6.6	23.6	8.3	8.7	3.4	7.3	
SE	.6	2.1	.6	1.1	.0		4.5	17.3	3.5	4.3	4.2	3.6	
S	.9	5.3	3.0	1.9	.0		11.1	17.2	10.1	8.7	11.9	12.1	
SW	1.0	3.0	4.1	2.5	.7		11.3	21.4	14.5	8.7	11.0	9.7	
W	.9	6.6	4.0	4.0	1.7		17.2	22.2	17.1	16.3	19.1	15.7	
NW	1.2	10.6	6.2	2.1	.0		20.1	16.2	14.9	28.3	17.8	24.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.5						3.5	.0	3.5	.0	3.4	4.8	
TOT OBS	18	78	54	41	10	201		19.5	97	23	59	62	
TOT PCT	9.0	38.8	26.9	20.4	5.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1967-1970

JANUARY

AREA 0001 BELL ISLE STRAIT
90.6N 97.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WDIR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.5	.0	2.6	38.6	22.8	8.8	1.8	18.4	100.0	57
0600	.0	.0	4.7	52.2	26.1	8.7	4.3	21.2	100.0	23
1200	3.4	.0	20.3	37.3	23.7	13.8	1.7	20.0	100.0	59
1800	4.8	.0	19.4	40.3	21.0	14.5	.0	18.4	100.0	67
TOT	7	0	40	81	48	74	3	18.4		201
PCT	3.5	.0	19.9	40.3	22.9	11.9	1.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	0.6	1.0	4.7	3.8		4.1
NE	1.7	.0	2.4	5.1		5.1
E	.5	.0	.4	6.3		7.2
SE	.0	.0	1.8	3.9		7.6
S	.0	.0	2.6	7.5		7.5
SW	1.5	.6	2.0	6.6		4.4
W	4.8	.0	5.0	3.0		5.0
NW	1.8	2.7	9.0	5.7		5.8
VAR	.0	.0	.0	.0		.0
CALM	1.8	.0	.6	1.8		4.8
TOT OBS	31	17	50	73	146	5.9
TOT PCT	19.7	7.2	30.1	44.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) AND OCCURRENCE OF NH 45/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	5500	6000+	NH 45/8 ANY HGT	TOTAL OBS
	149	290	490	900	1099	3499	4999	6499	7499			
N	1.1	.4	.9	.0	2.4	2.0	1.1	.0	.0	.4	11.0	
NE	.2	.8	1.2	.8	1.2	3.2	.0	.0	.0	.0	1.7	
E	.5	.0	.0	1.8	2.4	.5	.6	.0	.0	.0	1.7	
SE	.0	.0	.2	.8	1.4	2.9	.0	.0	.0	.0	.0	
S	.0	.0	.8	1.1	2.9	4.2	.0	.0	.0	.0	.6	
SW	.6	.0	.6	1.2	2.1	4.7	.0	.0	.0	.2	7.3	
W	1.2	.0	.0	.0	2.4	4.4	.0	.0	.0	.5	5.3	
NW	1.4	.0	.2	2.4	3.3	3.6	2.8	.0	.0	.0	9.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.6	.6	.0	.0	.0	.0	.0	1.2	1.8	
TOT OBS	8	7	14	30	47	7	7	1	6	50	165	
TOT PCT	4.8	1.7	7.4	8.4	18.1	25.3	4.2	.6	.6	30.1	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH 45/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6000	1.8	3.1	4.3	4.3	4.3	4.3	4.3	4.3
>4000	1.8	3.1	4.3	4.3	4.3	4.3	4.3	4.3
>3500	1.7	6.1	8.0	8.0	8.0	8.6	8.6	8.6
>2000	11.7	21.5	29.4	30.7	31.9	33.7	34.4	34.4
>1000	14.7	31.3	43.6	48.0	48.5	49.9	51.5	51.5
>500	14.7	35.0	50.9	53.4	55.8	58.9	59.5	59.5
>200	14.7	35.0	52.1	55.2	58.3	62.6	63.2	63.2
>150	14.7	35.0	52.1	55.8	59.5	63.8	64.4	64.4
>0	14.7	35.6	52.8	57.1	62.0	68.1	69.3	69.3
TOTAL	36	58	86	93	101	111	113	113

TOTAL NUMBER OF OBS: 163

PCT FREQ NH 45/8: 30.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	1	2	3	4	5	6	7	8	9	OBSCD	TOTAL OBS
	4.2	7.7	4.6	5.7	2.6	5.7	7.2	16.8	39.7	44.1	194

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1962-1970

JANUARY

AREA 0001 BELLE ISLE STRAIT
50.4N 57.6W

TABLE 2

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	.1	.9	.1	.4	.0	.0	1.7	.0	.0	3.6	
	NO PCP	.4	.0	.0	.0	.5	.5	.4	1.2	.0	.0	3.1	
	TOT %	.9	.1	.9	.1	.9	.5	.4	2.8	.0	.0	6.7	
1/2<1	PCP	.9	.0	.0	.5	.0	.0	1.5	.6	.0	.0	3.6	
	NO PCP	.4	.6	.0	.0	.0	.0	.0	.5	.0	.0	1.5	
	TOT %	1.3	.6	.0	.5	.0	.0	1.5	1.2	.0	.0	5.2	
1<2	PCP	.4	.4	.0	.0	.8	1.4	.9	.0	.0	.0	4.1	
	NO PCP	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.5	1.0	.0	.0	.8	1.4	.9	.0	.0	.0	4.6	
2<5	PCP	.4	1.0	1.0	.4	3.1	1.7	1.9	.8	.0	1.0	10.3	
	NO PCP	.4	2.2	.0	.0	1.0	1.0	.0	2.1	.0	.0	6.7	
	TOT %	.4	3.2	1.0	.4	4.1	2.7	1.9	2.8	.0	1.0	17.0	
5<10	PCP	.8	.0	1.0	.5	.4	.8	2.4	2.7	.0	.0	8.8	
	NO PCP	4.8	2.1	2.1	1.2	2.4	3.7	5.0	3.5	.0	.0	24.7	
	TOT %	5.6	2.1	3.1	1.7	2.8	4.5	7.4	6.2	.0	.0	33.5	
10+	PCP	.9	.0	.0	.0	.0	.0	.1	.0	.0	.0	1.0	
	NO PCP	7.5	1.4	1.8	1.4	2.8	3.0	5.0	6.4	.0	2.6	32.0	
	TOT %	8.4	1.4	1.8	1.4	2.8	3.0	5.0	6.6	.0	2.6	33.0	
TOT OBS													194
TOT PCT		17.4	8.5	6.8	4.1	11.5	11.7	14.8	19.6	.0	3.6	100.0	

TABLE 3

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.9	.0	.0	.5	.0	.0	1.5	
	11-21	.4	.0	.5	.0	.0	.5	.4	.8	.0	.0	2.6	
	22+	.5	.1	.4	.0	.0	.0	.0	1.5	.0	.0	2.6	
	TOT %	.9	.1	.9	.1	.9	.5	.4	2.8	.0	.0	6.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	1.3	.1	.0	.0	.0	.0	.5	1.2	.0	.0	3.1	
	22+	.0	.5	.0	.5	.0	.0	1.0	.0	.0	.0	2.1	
	TOT %	1.3	.6	.0	.5	.0	.0	1.5	1.2	.0	.0	5.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.5	.5	.0	.0	.4	.1	.5	.0	.0	.0	2.1	
	22+	.0	.5	.0	.0	.4	1.3	.4	.0	.0	.0	2.6	
	TOT %	.5	1.0	.0	.0	.8	1.4	.9	.0	.0	.0	4.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	
	4-10	.0	.0	.0	.3	1.3	.0	.0	.5	.0	.0	2.1	
	11-21	.0	.5	.0	.1	.9	2.1	.9	1.7	.0	.0	6.2	
	22+	.8	2.7	1.0	.0	1.9	.3	.4	.6	.0	.0	7.7	
	TOT %	.8	3.2	1.0	.4	4.1	2.3	1.3	2.8	.0	1.0	17.0	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.2	.5	.5	.0	.5	.5	1.5	1.9	.0	.0	6.7	
	11-21	2.4	.0	.5	1.0	1.4	.8	2.6	2.6	.0	.0	11.3	
	22+	1.9	1.5	2.1	.6	.9	3.2	3.5	1.7	.0	.0	15.5	
	TOT %	5.5	2.1	3.1	1.7	2.8	4.5	7.6	6.2	.0	.0	33.5	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	2.6	
	4-10	2.1	.3	.0	.6	1.4	1.2	.8	3.0	.0	.0	9.3	
	11-21	3.7	1.2	1.3	.6	1.0	.8	2.7	3.1	.0	.0	14.4	
	22+	2.6	.0	.5	.1	.4	1.0	1.5	.5	.0	.0	6.7	
	TOT %	8.4	1.4	1.8	1.4	2.8	3.0	5.0	6.6	.0	2.6	33.0	
TOT OBS													194
TOT PCT		17.4	8.5	6.8	4.1	11.5	11.7	14.8	19.6	.0	3.6	100.0	

JANUARY

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1882-1970AREA 0001 BELLE ISLE STRAIT
90.4N 57.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	4.9	.0	.0	9.8	24.4	17.1	.0	.0	.0	9.8	65.9	34.1	41
06009	10.0	.0	5.0	.0	20.0	15.0	5.0	.0	.0	.0	55.0	45.0	70
12015	1.9	3.8	.0	7.7	23.1	34.6	3.8	.0	1.9	.0	76.9	23.1	52
18021	5.3	.0	8.8	10.5	7.0	28.1	7.0	.0	.0	3.5	70.2	29.8	57
TOT	8	2	6	14	30	44	7	0	1	6	118	52	170
PCT	4.7	1.2	3.5	8.2	17.6	25.9	4.1	.0	.6	3.5	69.4	30.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	5.4	7.1	5.4	16.1	37.5	28.6	56
06009	4.5	.0	4.5	.0	36.4	54.5	22
12015	5.2	5.2	4.9	17.2	34.5	31.0	58
18021	9.7	4.8	3.2	22.6	27.4	32.3	62
TOT	13	10	10	33	66	66	198
PCT	5.5	5.1	5.1	16.7	33.3	33.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	5.3	13.2	34.2	34.2	31.6	38
06009	11.1	16.7	16.7	38.9	44.4	18
12015	1.9	13.5	40.4	36.5	23.1	52
18021	5.5	21.8	47.3	21.8	30.9	55
TOT	8	27	63	51	49	163
PCT	4.9	16.6	38.7	31.3	30.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.0	.0	.0	1.8	5.3	2.6	11	9.6
30/34	.0	.0	.0	.0	.9	1.8	5.3	17.5	29	25.4
25/29	.0	.0	.0	.0	.0	3.5	6.1	5.3	17	14.9
20/24	.0	.0	.0	.0	2.6	2.6	5.3	5.3	18	15.8
15/19	.0	.0	.0	.0	.0	2.6	13.2	1.8	21	18.4
10/14	.0	.0	.0	.9	.0	3.5	3.5	4.4	14	12.3
5/9	.0	.0	.0	.0	.0	.0	1.8	.0	2	1.8
0/4	.0	.0	.0	.0	.0	.0	.0	1.8	2	1.8
TOTAL	0	0	0	1	5	18	46	48	114	100.0
PCT	.0	.0	.0	.9	4.4	15.8	40.4	38.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
35/39	.0	2.6	5.3	.0	1.8	.0	.0	.0	.0	.0
30/34	2.2	7.7	2.4	2.4	4.6	3.7	.7	.0	.0	1.8
25/29	1.8	1.8	1.5	1.5	2.9	2.9	.9	.9	.0	.9
20/24	7.2	.2	1.5	.0	.0	2.4	2.0	.7	.0	1.8
15/19	4.2	.2	.9	.0	.0	3.9	3.5	5.7	.0	.0
10/14	4.4	.0	.0	.0	.9	.0	3.3	2.9	.0	.9
5/9	.7	.0	.0	.0	.0	.0	.9	.2	.0	.0
0/4	.0	.0	.0	.0	.0	.0	1.5	.2	.0	.0
TOTAL	20.4	12.5	11.6	3.9	10.1	12.9	10.5	.0	5.3	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	41	38	36	25	11	8	8	25.2	59
06009	38	37	37	24	10	7	7	24.0	23
12015	39	39	37	23	6	2	2	22.9	57
18021	39	38	36	23	8	3	3	23.3	64
TOT	41	38	37	24	8	3	2	23.8	203

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	5.9	20.6	41.2	32.4	85	34		
06009	.0	6.3	.0	18.8	50.0	25.0	84	16		
12015	.0	.0	3.4	10.3	44.8	41.4	88	29		
18021	.0	.0	5.7	14.3	31.4	48.6	88	35		
TOT	0	1	5	18	46	44	87	117		

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PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1882-1970AREA 0001 BELLE ISLE STRAIT
50.4N 57.6W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.0	.0	.0	.0	.8	1.6	.0	3	2.4	.0
6	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.8	4	.8	2.4
5	.0	.0	.0	.0	.0	.0	.0	1.6	.8	.0	3	.8	1.6
4	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	4	.8	2.4
3	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	4	.0	3.2
2	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	3	1.6	.8
1	.0	.0	.0	.0	.0	.0	4.0	.8	.8	.0	7	1.6	4.0
0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	1	.0	.8
-1	.0	.0	.0	.0	.0	1.6	3.2	1.6	.0	.0	8	.0	6.3
-2	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	2	.0	1.6
-3	.0	.0	.0	.0	.0	1.6	.0	.8	.0	.0	3	.0	2.4
-4	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	1	.0	.8
-5	.0	.0	.0	.0	1.6	1.6	4.0	.0	.0	.0	9	.0	7.1
-6	.0	.0	.0	.0	2.4	1.6	.8	.0	.0	.0	6	.0	4.8
-7/-8	.0	.0	.0	.0	2.4	.8	.6	.0	.0	.0	5	.0	4.0
-9/-10	.0	.0	.0	1.6	3.2	.8	.8	.0	.0	.0	8	.0	6.3
-11/-13	.0	.0	.0	10.3	3.2	.0	.0	.0	.0	.0	17	.0	13.5
-14/-16	.0	.0	4.0	6.3	2.4	.0	.0	.0	.0	.0	16	.0	12.7
-17/-19	.0	3.2	.8	.8	.0	.0	.0	.0	.0	.0	6	.0	4.8
-20/-22	.0	5.6	3.2	.0	.0	.0	.0	.0	.0	.0	11	.0	8.7
-23/-25	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	1.6
-26/-30	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	1.6	.8
TOTAL	4	12	10	24	19	11	22	16	7	1	126	12	114
PCT	3.2	9.5	7.9	19.0	15.1	8.7	17.5	12.7	5.6	.8	100.0	9.5	90.5

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.9	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	1.9	.0	.0	1.9	.0	.0	1.9	.0	.0	.0	1.9
5-6	.0	.0	1.4	3.8	.0	.0	5.3	.0	.0	.0	3.8	1.9	.0	5.8
7	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.0	.0	3.8	.0	3.8
8-9	.0	.0	.0	3.4	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	2.9	9.1	.0	.0	13.9	.0	.0	1.9	3.8	6.3	.0	12.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	2.4	.0	.0	.0	2.4
3-4	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	2.4
12	.0	.0	.0	1.9	1.4	.0	3.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.4	1.9	1.4	.0	6.7	.0	.5	2.4	.0	2.4	.0	5.3

PERIOD: (OVER-ALL) 1963-1970

JANUARY

AREA 0001 BELLE ISLE STRAIT
50.4N 97.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	3.4	.0	.0	.0	.0	3.4	.0	.0	1.9	.0	.0	.0	1.9	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	1.9	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	2.9	6.3	.0	.0	9.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	1.9	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.4	3.4	.0	1.4	.0	8.2	.0	.0	6.7	8.2	.0	.0	14.9	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.4	.0	.0	.0	.0	1.4	.0	.5	1.9	.0	.0	.0	2.4		
3-4	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.5	.0	.0	.0	.5		
5-6	.0	.0	1.4	1.9	.0	.0	3.4	.0	.0	2.9	.0	.0	.0	2.9		
7	.0	.0	1.4	3.4	.0	.0	4.8	.0	.0	4.3	.0	.0	.0	4.3		
8-9	.0	.0	1.9	1.9	.0	.0	3.8	.0	.0	.5	.0	.0	.0	.5		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	1.9		
17-19	.0	.0	.0	.0	.0	1.9	1.9	.0	.0	.0	1.9	.0	.0	1.9		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	1.4	6.3	7.2	.0	1.9	16.8	.0	.5	9.6	2.4	1.9	.0	14.4	92.3	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.7	3.8	1.9	.0	.0	.0	13.5	
1-2	.0	3.8	7.7	.0	.0	.0	11.5	
3-4	.0	.0	5.8	1.9	.0	.0	7.7	
5-6	.0	.0	7.7	9.6	1.9	.0	19.2	
7	.0	.0	11.5	9.6	3.8	.0	25.0	
8-9	.0	.0	1.9	9.6	.0	.0	7.7	
10-11	.0	.0	.0	1.9	3.8	.0	3.8	
12	.0	.0	.0	1.9	1.9	.0	3.8	
13-16	.0	.0	.0	.0	1.9	.0	1.9	
17-19	.0	.0	.0	1.9	.0	1.9	3.8	
20-22	.0	.0	.0	1.9	.0	.0	1.9	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.7	7.7	36.5	32.7	13.5	1.9	100.0	52

PERIOD: (OVER-ALL) 1954-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.3	8.3	8.3	5.0	18.3	3.3	3.3	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	5
6-7	.0	.0	.0	6.7	10.0	3.3	.0	3.3	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	4
8-9	.0	.0	1.7	1.7	.0	1.7	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
10-11	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	6.7	.0	.0	.0	.0	.0	1.7	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	4
TOTAL	6	5	7	8	17	5	3	4	2	2	1	0	0	0	0	0	0	0	0	60	6
PCT	10.0	8.3	11.7	13.3	28.3	8.3	5.0	6.7	3.3	3.3	1.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1903-1970

FEBRUARY

AREA 0001 BELLE ISLE STRAIT
50.2N 58.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WFA
	RAIN	RAIN SHWR	DR7L	FR7G PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	
N	.0	.0	.0	.0	8.7	.0	.0	8.7	.0	.0	13.0	.0	.0	.0	78.3
NE	.0	.0	.0	.0	28.3	.0	.0	28.3	.0	.0	8.3	.0	.0	.0	63.3
E	8.7	.0	.0	8.7	23.9	.0	.0	41.3	.0	.0	6.5	.0	.0	.0	52.2
SE	10.3	.0	.0	.0	3.4	.0	.0	13.8	.0	.0	3.4	.0	.0	.0	82.8
S	13.2	10.5	.0	.0	36.8	.0	.0	60.5	7.9	.0	.0	.0	.0	.0	31.6
SW	.0	.0	.0	.0	67.5	.0	.0	67.5	1.3	.0	10.4	.0	.0	.0	20.8
W	.0	.0	.0	.0	21.1	10.5	.0	31.6	.0	.0	5.3	.0	.0	.0	63.4
NW	.0	.0	.0	.0	20.8	.0	.0	20.8	.0	.0	20.8	.0	.0	.0	58.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	50.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	50.0
TOT PCT	3.0	1.0	.0	1.0	30.7	2.0	.0	37.6	1.0	.0	7.9	.0	.0	.0	53.5
TOT OBS:	101														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WFA
	RAIN	RAIN SHWR	DR7L	FR7G PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	
00003	.0	.0	.0	3.8	46.2	.0	.0	50.0	.0	.0	3.8	.0	.0	.0	46.2
06009	25.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0	.0	75.0
12015	6.1	.0	.0	.0	24.2	.0	.0	30.3	3.0	.0	15.2	.0	.0	.0	51.5
18021	.0	2.6	.0	.0	30.8	5.1	.0	38.5	.0	.0	5.1	.0	.0	.0	56.4
TOT PCT	2.9	1.0	.0	1.0	31.4	2.0	.0	38.2	1.0	.0	7.8	.0	.0	.0	52.9
TOT OBS:	102														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	2.7	2.5	6.6	.9	.0		13.2	21.7		15.3	11.1	18.8	.0	4.4	13.2	14.6	18.1
NE	.5	1.1	2.5	5.0	4.5	.0		13.6	26.0		15.3	13.9	25.0	.0	8.8	10.5	19.8	9.7
E	.0	4.1	3.9	.7	1.8	.0		10.5	18.6		9.7	30.6	.0	.0	10.3	9.2	7.3	9.7
SE	.0	2.5	1.8	2.3	.0	.0		6.6	15.6		1.4	.0	12.5	.0	7.4	6.6	8.3	11.1
S	1.8	3.0	3.4	.5	.0	.0		8.6	11.0		9.7	.0	12.5	.0	8.8	9.2	12.4	5.6
SW	.0	2.3	4.8	5.5	5.9	.0		18.4	26.5		23.6	16.7	.0	.0	27.1	19.7	12.5	22.2
W	.0	4.3	9.8	.9	3.0	.0		18.2	17.8		13.9	16.7	.0	100.0	27.9	25.0	12.5	13.9
NW	.0	.7	3.2	4.1	1.1	.0		9.1	23.4		11.1	.0	31.3	.0	4.4	6.6	12.5	9.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0		.0	11.1	.0	.0	5.9	.0	.0	.0
TOT OBS	5	23	35	28	19	0	110		20.6		18	9	4	1	17	19	24	18
TOT PCT	4.5	20.9	31.8	25.5	17.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	2.3	1.6	3.6	5.7	.0				13.9	15.0	9.0	16.1	
NE	1.6	.9	4.5	6.6	.0				14.8	20.0	9.7	15.5	
E	1.6	2.5	4.5	.9	.9				10.5	18.6	10.7	8.3	
SE	2.0	1.4	1.4	1.8	.0				6.6	15.6	.9	6.9	9.5
S	3.2	2.5	3.0	.0	.0				8.6	11.0	6.5	10.0	9.5
SW	1.4	2.5	4.1	9.1	1.4				18.4	26.5	21.3	.0	20.8
W	1.4	11.4	2.5	1.1	1.8				18.2	17.8	14.8	20.0	26.4
NW	.2	2.7	1.8	3.9	.5				9.1	23.4	7.4	25.0	5.6
VAR	.0	.0	.0	.0	.0				.0	.0	.0	.0	.0
CALM	1.8								1.8	.0	3.7	.0	2.8
TOT OBS	17	28	28	32	5	110			20.6		27	5	36
TOT PCT	15.5	25.5	25.5	29.1	4.5				100.0		100.0	100.0	100.0

PERIOD: (PRIMARY) 1964-1970
(COVER-ALL) 1903-1970

FEBRUARY

AREA 0001 BELLE ISLE STRAIT
50.2N 58.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.7	3.7	14.8	29.6	29.6	18.5	.0	22.0	100.0	27
06009	.0	.0	20.0	.0	80.0	.0	.0	23.8	100.0	5
12015	2.8	.0	27.8	36.1	19.4	13.9	.0	19.0	100.0	36
18021	.0	4.8	19.0	33.3	21.4	21.4	.0	20.5	100.0	42
TOT	2	3	23	35	28	19	0	20.6		110
PCT	1.8	2.7	20.9	31.8	25.5	17.3	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	1.0	1.0	7.2		6.7
NE	4.4	.0	1.3	9.8		6.0
E	.8	.0	1.8	9.3		7.3
SE	2.1	3.1	1.0	1.3		4.1
S	1.0	.0	.8	5.9		7.0
SW	1.3	.0	3.9	13.7		7.1
W	8.2	1.5	4.6	5.2		4.4
NW	.8	2.6	.0	3.4		5.3
VAR	.0	.0	.0	.0		.0
CALM	1.0	.0	.0	1.0		5.0
TOT OBS	20	8	14	55	97	6.0
TOT PCT	20.6	8.2	14.4	56.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/R)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
2.6	.0	.0	.0	4.1	1.0	.0	.0	.0	.0	2.6	
3.6	.0	.0	2.1	.3	1.3	.0	.0	.0	1.0	7.2	
.8	.0	.0	1.0	.8	3.9	.8	.0	1.0	1.0	2.6	
.0	.0	.0	.3	.0	.5	.5	.0	.0	.0	6.2	
1.0	.0	.0	.8	.8	.5	1.8	1.0	.0	.0	1.8	
1.3	.3	2.1	3.4	3.9	5.2	1.0	.0	.0	.0	1.5	
1.8	.8	.8	1.8	1.5	.0	.0	1.0	.0	.0	11.9	
.3	.0	1.0	.0	1.0	1.0	.0	.0	.0	.0	3.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
12	1	4	9	12	13	4	1	2	7	37	
12.4	1.0	4.1	9.3	12.4	13.4	4.1	1.0	2.1	2.1	36.1	
										100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/R) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	3.1	4.2	4.2	4.2	4.2	4.2	4.2
>5000	.0	4.2	5.2	5.2	5.2	5.2	5.2	5.2
>3500	.0	4.2	9.4	9.4	9.4	9.4	9.4	9.4
>2000	.0	11.5	20.8	22.9	22.9	22.9	22.9	22.9
>1000	3.1	19.8	29.2	32.3	33.3	34.4	34.4	34.4
>600	3.1	24.0	37.5	41.7	42.7	43.8	43.8	43.8
>300	3.1	25.0	40.6	45.8	46.9	47.9	47.9	47.9
>150	3.1	25.0	40.6	45.8	47.9	49.0	49.0	49.0
>0	3.1	25.0	41.7	49.0	56.3	59.4	61.5	61.5
TOTAL	3	24	40	47	54	57	59	59

TOTAL NUMBER OF OBS: 96

PCT FREQ NH <5/8: 38.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.1	11.1	12.1	3.0	1.0	3.0	4.0	2.0	41.4	12.1	99

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1903-1970

FEBRUARY

AREA 0001 BELLE ISLE STRAIT
50.2N 58.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.0	2.0	.0	.0	.0	1.0	.0	.0	.0	.0	4.0	
	NO PCP	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	1.7	2.7	.0	.0	.0	1.0	.0	.0	.0	.0	5.0	
1/2<1	PCP	.0	1.2	.7	.0	.0	1.2	1.7	.0	.0	.0	5.0	
	NO PCP	.7	.0	.0	.0	.0	1.0	.0	.2	.0	.0	2.0	
	TOT %	.7	1.2	.7	.0	.0	2.2	1.7	.2	.0	.0	6.9	
1<2	PCP	.0	1.0	1.0	.0	1.7	1.5	.7	1.0	.0	.0	6.9	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	1.0	1.0	.0	1.7	1.5	.7	1.0	.0	.0	6.9	
2<5	PCP	.0	.0	3.0	1.0	4.0	5.0	.7	.2	.0	1.0	14.9	
	NO PCP	1.7	1.0	.7	.2	.7	1.2	.0	1.2	.0	.0	6.9	
	TOT %	1.7	1.0	3.7	1.2	4.7	6.2	.7	1.5	.0	1.0	21.8	
5<10	PCP	.0	.0	.0	.0	.0	4.2	2.7	.0	.0	.0	6.9	
	NO PCP	5.4	6.2	5.2	4.0	2.0	1.7	4.7	.5	.0	1.0	30.7	
	TOT %	5.4	6.2	5.2	4.0	2.0	5.9	7.4	.5	.0	1.0	37.6	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	1.7	1.2	.7	2.0	1.0	2.2	4.2	2.7	.0	.0	21.8	
	TOT %	1.7	1.2	.7	2.0	1.0	2.2	4.2	2.7	.0	.0	21.8	
TOT OBS													101
TOT PCT		11.4	14.9	11.4	7.2	9.4	19.1	18.8	5.9	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	4-10	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.7	1.2	.0	.0	.0	1.0	.0	.0	.0	.0	2.9	
	TOT %	1.7	2.1	.0	.0	.0	1.0	.0	.0	.0	.0	4.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0	
	11-21	.7	.2	.7	.0	.0	1.2	.7	.2	.0	.0	3.8	
	22+	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.9	
	TOT %	.7	1.2	.7	.0	.0	2.1	1.7	.2	.0	.0	6.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	1.9	
	11-21	.0	.0	1.0	.0	.7	.2	.0	.0	.0	.0	1.9	
	22+	.0	1.0	.0	.0	.0	1.2	.7	1.0	.0	.0	3.8	
	TOT %	.0	1.0	1.0	.0	1.7	2.4	.7	1.0	.0	.0	7.6	
2<5	0-3	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	1.9	
	4-10	.0	.0	2.6	.7	2.1	1.2	.0	.0	.0	.0	6.7	
	11-21	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	2.9	
	22+	1.7	1.0	.0	.5	.5	3.8	1.2	1.9	.0	.0	10.5	
	TOT %	1.7	1.0	3.6	1.2	4.5	6.0	1.2	1.9	.0	1.0	21.9	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	
	4-10	1.4	.7	1.7	1.0	.0	.2	2.1	.5	.0	.0	7.6	
	11-21	1.0	2.1	.7	1.0	1.9	.7	5.0	.0	.0	.0	12.9	
	22+	2.9	3.1	2.6	1.9	.0	4.8	.5	.5	.0	.0	19.2	
	TOT %	5.2	6.0	5.0	3.8	1.9	5.7	7.6	1.0	.0	1.0	37.1	
10+	0-3	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0	
	4-10	1.0	.0	.0	1.0	.0	.0	1.7	.2	.0	.0	3.8	
	11-21	.5	.2	.7	1.0	.0	1.9	4.5	2.6	.0	.0	11.4	
	22+	.7	2.9	.0	.0	.0	.2	1.7	.2	.0	.0	5.7	
	TOT %	2.1	3.1	.7	1.9	1.0	2.1	7.9	3.1	.0	.0	21.9	
TOT OBS													105
TOT PCT		11.4	14.3	11.0	8.9	9.0	19.3	19.0	7.1	.0	1.9	100.0	

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PERIOD: (PRIMARY) 1964-1970
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	20.8	.0	4.2	8.3	8.3	25.0	4.2	.0	4.2	.0	75.0	25.0	24
06009	.0	.0	.0	.0	.0	33.3	.0	.0	33.3	.0	66.7	33.3	3
12015	6.5	3.2	6.5	12.9	9.7	9.7	3.2	3.2	.0	.0	54.8	45.2	31
18021	12.8	.0	2.6	7.7	17.9	7.7	5.1	.0	.0	5.1	59.0	41.0	39
TOT	12	1	4	9	12	13	4	1	2	2	60	37	67
PCT	12.4	1.0	4.1	9.3	12.4	13.4	4.1	1.0	2.1	2.1	61.9	38.1	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	11.1	7.4	3.7	22.2	40.7	14.8	27
06009	.0	.0	.0	50.0	25.0	25.0	4
12015	5.7	2.9	11.4	28.6	25.7	25.7	35
18021	2.5	10.0	7.5	12.5	45.0	22.5	40
TOT	4	7	8	73	39	23	106
PCT	5.7	6.6	7.5	21.7	36.8	21.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	20.8	29.2	58.3	20.8	20.8	24
06009	.0	.0	33.3	33.3	33.3	3
12015	6.5	16.1	48.4	17.9	38.7	31
18021	13.2	18.4	34.2	23.7	42.1	39
TOT	12	19	43	19	34	96
PCT	12.5	19.8	44.8	19.8	35.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	1.1	1.1	.0	.0	2	2.2
40/44	.0	.0	.0	.0	.0	1.1	.0	1.1	2	2.2
35/39	.0	.0	.0	.0	.0	.0	.0	3.3	3	3.3
30/34	.0	.0	.0	.0	3.3	2.2	5.6	11.1	20	22.2
25/29	.0	.0	.0	.0	.0	7.7	3.3	11.1	15	16.7
20/24	.0	.0	.0	.0	.0	1.1	11.1	8.9	19	21.1
15/19	.0	.0	.0	.0	.0	1.1	5.6	4.4	12	13.3
10/14	.0	.0	.0	.0	7.7	7.7	4.4	1.1	9	10.0
5/9	.0	.0	.0	.0	.0	7.7	2.2	2.2	6	6.7
-1/-4	.0	.0	.0	.0	.0	.0	2.2	.0	2	2.2
TOTAL	0	0	0	0	4	14	31	39	90	100.0
PCT	.0	.0	.0	.0	4.7	15.6	34.4	43.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0
.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0
.0	.0	1.1	.3	.8	1.1	.0	.0	.0	.0
4.2	3.9	5.0	2.2	.8	.3	5.6	.3	.0	.0
.0	5.0	1.7	1.1	1.1	3.9	2.2	.6	.0	1.1
1.9	1.7	1.7	.6	1.9	8.6	3.3	.3	.0	1.1
.6	1.7	1.1	.0	1.9	3.1	3.3	1.7	.0	.0
1.1	3.3	.0	1.1	.0	.0	3.3	1.1	.0	.0
1.1	1.1	1.1	1.1	.0	2.2	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	1.1	1.1	.0	.0
8.9	16.7	12.8	7.5	7.8	20.3	18.9	5.0	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	42	41	41	26	8	5	5	23.9	27
06009	38	37	37	31	22	22	22	30.4	5
12015	53	52	43	24	-1	-7	-7	25.6	36
18021	54	53	45	26	9	-1	-1	24.9	42
TOT	54	53	43	26	8	-7	-7	25.1	110

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	13.0	30.4	56.5	89	23
06009	.0	.0	.0	.0	.0	100.0	100	1
12015	.0	.0	3.3	10.0	40.0	46.7	88	30
18021	.0	.0	13.9	22.2	33.3	30.6	83	34
TOT	0	0	6	14	31	39	86	97

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TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	1	.0	1.8
9/10	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	1.8	.0	2	.0	3.5
4	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	1	.0	1.8
3	.0	.0	.0	.0	.0	.0	1.8	.0	.0	1.8	.0	.0	2	1.8	1.8
2	.0	.0	.0	.0	.0	.0	5.3	5.3	.0	.0	.0	.0	6	1.8	4.8
1	.0	.0	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0	3	1.8	3.5
0	.0	.0	.0	.0	.0	.0	5.3	1.8	.0	.0	.0	.0	4	1.8	5.3
-1	.0	.0	.0	.0	.0	.0	7.0	.0	.0	.0	.0	.0	4	.0	7.0
-2	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	1	.0	1.8
-3	.0	.0	.0	.0	.0	.0	7.0	.0	.0	.0	.0	.0	4	.0	7.0
-4	.0	.0	.0	.0	.0	.0	1.8	.0	1.8	.0	.0	.0	2	.0	3.5
-5	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	1	.0	1.8
-7/-8	.0	.0	.0	.0	1.8	5.3	.0	.0	.0	.0	.0	.0	4	.0	7.0
-9/-10	.0	.0	.0	.0	10.5	.0	3.5	.0	.0	.0	.0	.0	8	.0	14.0
-11/-13	.0	.0	.0	.0	3.5	.0	1.8	.0	.0	.0	.0	.0	3	.0	5.3
-14/-16	.0	.0	.0	7.0	.0	3.5	.0	.0	.0	.0	.0	.0	6	.0	10.5
-17/-19	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	1.8
-20/-22	.0	1.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	3.5
-23/-25	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	1.8
<-30	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	1.8
TOTAL	1	2	2	9	5	5	19	6	1	1.8	3.5	2	57	7.0	93.0
PCT	1.8	3.5	3.5	7.0	15.8	8.8	33.3	10.5	1.8	1.8	3.5	2	100.0	7.0	93.0

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TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.5	.0	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	4.5	.0	.0	.0	4.5	.0	.0	.0	9.1	4.5	.0	13.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	9.1	.0	.0	10.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	4.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	4.5	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	3.4	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	4.5	8.0	.0	.0	17.0	.0	.0	1.1	22.7	4.5	.0	28.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	3.4	.0	4.5	.0	8.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.4	.0	4.5	.0	8.0	.0	.0	.0	.0	.0	.0	.0

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TABLE 18 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	.0	5.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	9.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.9	.0	15.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	3.4	.0	.0	.0	3.4	.0	.0	1.1	.0	.0	.0	1.1	.0
5-6	.0	.0	.0	.0	3.4	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	4.5	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	4.5	.0
10-11	.0	.0	.0	.0	3.4	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.2	.0	.0	10.2	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.4	.0	6.8	.0	10.2	.0	.0	1.1	19.3	.0	.0	20.5	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.5	.0	.0	.0	.0	4.5	.0
3-4	.0	.0	4.5	.0	.0	.0	4.5	.0
5-6	.0	.0	4.5	9.1	13.6	.0	27.3	.0
7	.0	.0	4.5	13.6	4.5	.0	22.7	.0
8-9	.0	.0	.0	9.1	.0	.0	9.1	.0
10-11	.0	.0	.0	.0	4.5	.0	4.5	.0
12	.0	.0	.0	4.5	9.1	.0	13.6	.0
13-16	.0	.0	.0	13.6	.0	.0	13.6	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	13.6	50.0	31.8	.0	100.0	22

PERIOD: (OVER-ALL) 1965-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	.0	7.7	7.7	.0	3.8	15.4	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
6-7	.0	.0	.0	26.9	.0	.0	3.8	7.7	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
8-9	.0	.0	.0	.0	3.8	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
10-11	.0	.0	.0	.0	.0	3.8	.0	.0	7.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	13
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
TOT PCT	.0	7.7	7.7	26.9	7.7	19.2	3.8	11.5	13.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	8
TOT PCT	.0	7.7	7.7	26.9	7.7	19.2	3.8	11.5	13.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1963-1970
(OVER-ALL) 1928-1970

MARCH

AREA 0001 BELLE ISLE STRAIT
90.6N 57.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRFG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY PLWG SNOW	DUST	NO SIG WEA
N	.0	.0	.0	.0	29.5	.0	.0	29.5	.0	.0	3.2	.0	.0	.0	.0	67.4
NE	.0	.0	6.2	.0	38.5	.0	.0	44.6	.0	.0	.0	.0	.0	.0	.0	55.4
E	.0	.0	.0	.0	46.3	.0	.0	46.3	.0	.0	.0	.0	.0	.0	.0	53.7
SE	21.1	.0	.0	.0	21.1	.0	.0	42.1	.0	.0	21.1	.0	.0	.0	.0	36.8
S	.0	.0	.0	.0	7.4	.0	.0	7.4	.0	.0	16.7	.0	.0	.0	.0	75.9
SW	.0	.0	.0	.0	23.5	.0	.0	23.5	.0	.0	12.9	.0	.0	.0	.0	63.5
W	.0	.0	.0	.0	34.8	.0	.0	34.8	5.8	.0	10.1	.0	.0	.0	5.8	43.5
NW	.0	.0	.0	.0	34.1	.0	.0	34.1	.0	.0	3.4	.0	.0	.0	.0	62.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.7	.0	.7	.0	30.3	.0	.0	31.6	.7	.0	6.6	.0	.0	.7	.0	60.5
TOT OBS:	152															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRFG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY PLWG SNOW	DUST	NO SIG WEA
0000	.0	.0	.0	.0	33.3	.0	.0	33.3	.0	.0	4.4	.0	.0	2.2	.0	60.0
0600	.0	.0	.0	.0	14.3	.0	.0	14.3	.0	.0	.0	.0	.0	.0	.0	85.7
1200	2.0	.0	2.0	.0	27.5	.0	.0	31.4	2.0	.0	7.8	.0	.0	.0	.0	58.8
1800	.0	.0	.0	.0	32.7	.0	.0	32.7	.0	.0	8.2	.0	.0	.0	.0	59.2
TOT PCT	.7	.0	.7	.0	30.3	.0	.0	31.6	.7	.0	6.6	.0	.0	.7	.0	60.5
TOT OBS:	152															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	4.0	4.5	2.2	1.8	1.4		15.9	21.8		21.6	10.3	11.1	.0	16.9	25.0	8.9	13.1
NE	.0	1.0	3.5	4.0	1.9	.0		10.4	24.5		14.7	19.1	22.2	.0	10.5	2.4	.0	14.3
E	.0	2.5	2.0	1.3	.0	.0		7.9	14.1		12.1	4.4	22.2	.0	12.9	.0	7.1	.0
SE	.0	.0	2.4	.0	.6	.0		3.0	20.8		1.7	1.5	.0	.0	3.2	4.8	7.1	.0
S	.0	2.4	4.0	1.3	.0	.0		8.7	14.4		9.5	8.8	11.1	.0	2.4	9.5	9.8	13.1
SW	1.9	2.2	5.6	3.2	.6	.0		13.6	16.0		13.8	13.2	11.1	.0	13.7	14.3	8.9	20.2
W	.0	2.7	4.0	3.7	.6	.0		11.1	18.3		2.6	13.2	11.1	.0	2.4	16.7	25.9	8.3
NW	.0	4.6	9.8	7.4	5.9	1.1		28.8	24.0		24.1	29.4	11.1	.0	34.7	27.4	32.1	31.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.4							.6	.0		.0	.0	.0	.0	3.2	.0	.0	.0
TOT OBS	5	32	61	36	18	4	156		20.1		29	17	9	0	31	21	28	21
TOT PCT	3.2	20.5	39.1	23.1	11.5	2.6		100.0			100.0	100.0	100.0	.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+					00	03	09	15
N	1.8	4.5	5.4	2.2	1.9		15.9	21.8		17.4	11.1	20.2	10.7
NE	.2	.8	5.4	4.0	.0		10.4	24.5		16.3	22.2	7.2	6.1
E	1.8	3.5	1.3	1.3	.0		7.9	14.1		9.2	22.2	7.7	4.1
SE	.0	2.4	.0	.0	.6		3.0	20.8		1.6	.0	3.8	4.1
S	.6	5.3	2.7	.0	.0		8.7	14.4		9.2	11.1	5.3	11.2
SW	4.0	2.7	6.3	.0	.6		13.6	16.0		13.8	11.1	13.9	13.8
W	1.6	3.8	3.0	2.6	.0		11.1	18.3		6.5	11.1	8.2	18.4
NW	.3	7.7	9.8	7.9	3.2		28.8	24.0		26.1	11.1	31.7	31.6
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALM	.6						.6	.0		.0	.0	1.9	.0
TOT OBS	17	48	53	28	10	156		20.1		46	9	52	49
TOT PCT	10.9	30.8	34.0	17.9	6.4		100.0			100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1965-1970
(OVER-ALL) 1928-1970AREA 0001 BELL ISLE STRAIT
40.0N 57.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	0-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	.0	2.2	17.4	39.1	23.9	13.0	4.3	22.0	46
06009	.0	.0	33.3	33.3	33.3	.0	.0	16.2	9
12015	1.9	3.8	17.3	38.5	26.9	9.6	1.9	19.8	52
18021	.0	2.0	24.5	40.8	16.3	14.3	2.0	19.5	49
TOT	1	4	32	61	36	18	4	20.1	156
PCT	.6	2.6	20.5	39.1	23.1	11.5	2.6	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL	MEAN CLOUD COVER
N	4.4	1.7	2.0	7.4		5.2
NE	3.5	1.5	.8	5.8		4.9
E	.7	.5	1.2	5.2		6.9
SE	.2	.0	.7	2.3		7.3
S	2.9	.0	.3	5.0		5.5
SW	3.9	.7	3.0	6.0		5.4
W	.5	.4	6.0	3.9		6.4
NW	6.2	.4	4.7	17.3		6.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.7	.0		7.0
TOT OBS	33	8	29	79	149	5.8
TOT PCT	22.1	5.4	19.5	53.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/R
AND OCCURRENCE OF NH <5/R BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/R	TOTAL
149	299	499	999	1999	3499	4999	6499	7999		ANY HGT	0.5
2.3	1.7	.0	1.0	.0	1.7	.0	.0	.0	.0	5.7	
4.0	.0	.0	.7	.0	.4	.0	.0	.0	.0	5.7	
.7	.0	1.3	.7	.7	1.2	.0	.0	.5	.7	1.8	
.7	.0	.0	.0	1.3	.0	.0	.7	.3	.0	.2	
.7	.0	.7	.0	2.7	1.0	.0	.0	1.2	.0	2.0	
.7	.0	.0	2.0	2.0	1.0	.0	.0	.0	.0	7.0	
1.5	.0	.0	1.2	4.2	.0	1.7	.0	.7	.7	1.7	
2.2	2.3	1.3	4.4	5.2	1.3	.3	.0	2.0	.0	9.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	
19	4	8	15	24	10	4	1	7	1	57	
12.8	4.0	3.4	10.1	16.1	6.7	2.7	.7	4.7	.7	38.3	149
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/R) AND VSBY (NM)

CEILING (FEET)	>10	>5	>2	VSBY (NM) >1	>1/2	>1/4	>50YD	>0
>4500	2.0	4.7	4.7	4.7	5.4	5.4	5.4	5.4
>3000	2.0	4.7	5.4	5.4	6.1	6.1	6.1	6.1
>2500	4.1	7.4	8.1	8.1	8.8	8.8	8.8	8.8
>2000	5.4	12.8	14.2	14.2	15.5	15.5	15.5	15.5
>1000	10.1	20.3	27.0	27.0	30.4	31.1	31.8	31.8
>600	12.8	25.7	33.8	35.8	39.9	40.5	41.9	41.9
>300	12.8	27.7	36.5	39.2	43.2	43.9	45.3	45.3
>150	12.8	29.7	39.9	42.6	47.3	48.0	49.3	49.3
>0	12.8	29.7	41.2	44.6	49.0	50.8	52.2	52.2
TOTAL	19	44	61	66	77	84	92	92

TOTAL NUMBER OF OBS: 148

PCT FREQ NH <5/R: 7.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
23.5	9.3	6.5	2.6	2.0	5.7	10.5	3.9	30.1	12.4	153

PERIOD: (PRIMARY) 1944-1970
(OVER-ALL) 1928-1970

MARCH

AREA 0001 BELL ISLE STRAIT
50.6N 97.4W

TABLE B

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.8	2.6	.0	.0	.0	.7	2.0	2.1	.0	.0	9.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
	TOT %	1.8	2.6	.0	.0	.0	.7	2.6	2.1	.0	.0	9.9	
1/2<1	PCP	.7	1.3	1.3	.7	.0	.0	.7	2.0	.0	.0	6.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.5	.2	.0	.0	.7	
	TOT %	.7	1.3	1.3	.7	.0	.0	1.2	2.1	.0	.0	7.2	
1<2	PCP	.0	.0	.0	.0	.7	1.3	.0	1.3	.0	.0	3.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.7	1.3	.0	1.3	.0	.0	3.3	
2<5	PCP	1.4	.0	.7	.7	.0	1.3	1.3	1.6	.0	.0	7.2	
	NO PCP	.5	.0	.0	.7	1.5	1.3	.0	.8	.0	.0	5.3	
	TOT %	2.1	.0	.7	1.3	1.5	3.1	1.3	2.5	.0	.0	12.5	
5<10	PCP	.5	.8	1.2	.0	.0	.0	.0	2.8	.0	.0	5.3	
	NO PCP	4.1	3.1	2.3	.8	2.3	7.7	2.8	8.1	.0	.0	32.2	
	TOT %	4.6	3.9	3.5	.8	2.3	7.7	2.8	10.9	.0	.0	37.5	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	4.4	2.8	1.3	.3	4.4	1.3	3.4	10.0	.0	.7	29.6	
	TOT %	4.4	2.8	1.3	.3	4.4	1.3	3.4	10.0	.0	.7	29.6	
TOT OBS		14.6	10.7	6.7	3.1	8.9	14.0	11.4	28.9	.0	.7	100.0	152
TOT PCT													

TABLE C

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	22+	1.8	2.0	.0	.0	.0	.0	2.6	2.1	.0	.0	8.5	
	TOT %	1.8	2.6	.0	.0	.0	.7	2.6	2.1	.0	.0	9.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.7	.0	.0	.0	.0	.0	.0	.7	.0	.0	1.3	
	11-21	.0	1.3	1.3	.7	.0	.0	.7	.7	.0	.0	4.6	
	22+	.0	.0	.0	.0	.0	.0	.5	.8	.0	.0	1.3	
	TOT %	.7	1.3	1.3	.7	.0	.0	1.1	2.1	.0	.0	7.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	2.6	
	TOT %	.0	.0	.0	.0	.7	1.3	.0	1.3	.0	.0	3.3	
2<5	0-3	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
	4-10	1.6	.0	.0	.0	.0	.0	.7	.3	.0	.0	2.6	
	11-21	.0	.0	.0	.7	1.5	1.8	.7	.7	.0	.0	5.2	
	22+	.5	.0	.7	.7	.0	.7	.0	1.5	.0	.0	3.9	
	TOT %	2.1	.0	.7	1.3	1.5	3.1	1.3	2.5	.0	.0	12.4	
5<10	0-3	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	1.3	
	4-10	1.1	1.0	1.6	.0	.7	2.1	1.1	1.5	.0	.0	9.2	
	11-21	2.8	1.6	1.1	.8	1.0	2.9	.7	4.1	.0	.0	15.0	
	22+	1.0	1.3	.7	.0	.7	2.0	1.0	3.2	.0	.0	11.8	
	TOT %	5.6	3.9	3.4	.8	2.3	7.7	2.8	10.8	.0	.0	37.3	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
	4-10	.7	.0	.7	.0	1.8	.2	1.0	2.3	.0	.0	6.5	
	11-21	3.1	.0	.7	.3	2.0	1.0	2.1	4.6	.0	.0	13.7	
	22+	2.3	2.8	.0	.0	.7	.0	.3	3.1	.0	.0	9.2	
	TOT %	6.0	2.8	1.3	.3	4.4	1.1	3.4	10.0	.0	.7	30.1	
TOT OBS		16.2	10.6	6.7	3.1	8.8	13.9	11.3	28.8	.0	.7	100.0	153
TOT PCT													

MARCH

PERIOD: (PRIMARY) 1969-1970
(OVER-ALL) 1924-1970AREA 0001 RELF ISLE STRAIT
90.8N 57.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM 34/8) AND
OCCURRENCE OF NM 45/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM 45/8 ANY HGT	TOTAL OBS
00003	17.8	2.2	.0	8.9	8.9	6.7	.0	.0	8.9	.0	53.3	46.7	45
06009	15.7	.0	.0	16.7	.0	16.7	.0	.0	16.7	.0	60.7	39.3	6
12015	9.8	5.9	3.9	7.8	23.5	9.8	2.0	2.0	2.0	2.0	68.6	31.4	51
18021	10.4	4.2	6.3	12.5	16.7	2.1	6.3	.0	2.1	.0	60.4	39.6	48
TOT	19	6	5	15	24	10	4	1	7	1	92	58	150
PCT	12.7	4.0	3.3	10.0	16.0	6.7	2.7	.7	4.7	.7	61.3	38.7	100.0

TABLE 11

PERCENT FREQUENCY VSKY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	13.3	4.4	2.2	13.3	35.6	31.1	45
06009	.0	14.3	.0	.0	.0	85.7	7
12015	9.6	7.7	2.4	13.5	40.4	25.0	52
18021	8.2	8.2	4.1	12.2	40.8	26.5	49
TOT	19	11	4	19	57	46	153
PCT	9.8	7.2	2.1	12.4	37.3	30.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSKY (NM) AND/OR
CEILING HGT (FEET, NM 34/8) BY HOUR

HOUR (GMT)	<150 45000	<600 45	<1000 45	1000+ AND 5+	NM 45/8 AND 5+	TOTAL OBS
00003	18.6	23.6	39.5	16.3	44.2	49
06009	16.7	16.7	33.3	33.3	33.3	6
12015	9.8	27.5	45.1	25.5	29.4	51
18021	10.4	27.1	43.8	16.7	39.6	48
TOT	19	39	63	30	55	148
PCT	12.8	26.4	42.6	20.3	37.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	.0	.7	.0	.0	1	.7
55/39	.0	.0	.0	.0	.4	4.4	3.6	2.2	16	11.7
50/34	.0	.0	.0	.7	.7	1.5	3.6	19.7	36	26.3
25/29	.0	.0	.0	.7	1.4	4.4	15.3	10.7	44	32.1
20/24	.0	.0	1.5	.7	.7	2.2	8.8	6.6	28	20.4
15/19	.0	.0	.0	.0	.0	2.2	1.5	1.5	7	5.1
10/14	.0	.0	.0	.0	.7	1.5	.7	.7	5	3.6
TOTAL	0	0	2	3	7	23	46	56	137	100.0
PCT	.0	.0	1.5	2.2	5.1	16.8	33.6	40.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
40/44	.0	.0	.0	.0	.0	.0	.5	.2	.0	.0
55/39	1.5	2.2	2.7	.2	1.5	.0	2.0	1.6	.0	.0
50/34	6.8	2.4	.0	1.6	4.4	2.0	.7	8.4	.0	.0
25/29	3.1	3.3	2.2	.9	3.6	6.6	3.6	8.8	.0	.0
20/24	2.7	1.8	1.8	.7	.0	3.6	1.8	7.8	.0	.0
15/19	.7	.0	.7	.0	.0	1.5	.5	1.6	.0	.0
10/14	.0	1.5	.0	.0	.0	.0	1.6	.4	.0	.0
TOTAL	14.8	11.1	7.5	3.5	9.5	13.7	11.1	28.8	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	38	37	35	27	13	10	10	26.2	46
06009	36	35	35	31	22	22	22	30.1	9
12015	41	40	40	27	17	15	15	27.3	52
18021	45	44	38	29	27	13	13	29.2	48
TOT	45	41	37	28	17	11	10	27.7	155

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.1	7.7	12.8	33.3	41.0	85	39		
06009	.0	.0	16.7	16.7	16.7	90.0	86	6		
12015	.0	2.2	.0	21.7	39.1	37.0	86	44		
18021	.0	4.3	6.5	15.2	30.4	43.5	45	46		
TOT	0	5	7	23	46	56	85	137		

MARCH

PERIOD: (PRIMARY) 1965-1970
(OVER-ALL) 1928-1973

TABLE 17

AREA 0001 BELL ISLE STRAIT
50.6N 57.4W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SFA TEMPERATURE DIFFERENCE (DEG F)

AIR-SFA TMP DIF	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	NO FOG
7/+	.0	.0	.0	.0	.0	.0	1.5	.0	1	.0	1.5	
6	.0	.0	.0	.0	.0	1.5	.0	.0	1	.0	1.5	
5	.0	.0	.0	.0	.0	7.5	.0	.0	5	3.0	4.5	
4	.0	.0	.0	.0	.0	6.0	.0	1.5	5	.0	7.5	
3	.0	.0	.0	.0	3.0	3.0	.0	.0	6	1.5	4.5	
2	.0	.0	.0	.0	1.5	3.0	.0	.0	3	.0	4.5	
1	.0	.0	.0	.0	1.5	.0	.0	.0	1	1.5	.0	
0	.0	.0	.0	.0	3.0	1.5	.0	1.5	4	.0	6.0	
-1	.0	.0	.0	3.0	.0	.0	.0	.0	2	.0	3.0	
-2	.0	.0	.0	7.5	.0	.0	.0	.0	5	1.5	6.0	
-3	.0	.0	.0	9.0	1.5	.0	.0	.0	7	.0	10.4	
-4	.0	.0	.0	3.0	.0	.0	.0	.0	2	.0	3.0	
-5	.0	.0	.0	6.0	3.0	.0	.0	.0	6	.0	9.0	
-6	.0	.0	4.5	.0	3.0	.0	.0	.0	5	.0	7.5	
-7/-8	.0	.0	4.5	1.5	3.0	.0	.0	.0	6	.0	9.0	
-9/-10	.0	1.5	4.5	.0	.0	.0	.0	.0	4	.0	6.0	
-11/-12	.0	4.5	.0	.0	.0	.0	.0	.0	3	.0	4.5	
-14/-16	1.5	.0	.0	.0	.0	.0	.0	.0	1	.0	1.5	
-17/-19	3.0	.0	.0	.0	.0	.0	.0	.0	2	.0	3.0	
TOTAL	3	4	9	20	13	1	2	1	67	5	62	
PCT	4.5	6.0	13.4	29.9	19.4	20.0	1.5	3.0	1.5	100.0	7.5	92.5

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	3.0	2.3	.0	.0	.0	5.3	.0	4.5	.0	.0	.0	.0	4.5
1-2	.0	2.3	4.3	.0	.0	.0	7.6	.0	.0	.8	.0	.0	.0	.8
3-4	.0	3.0	2.3	.0	.0	.0	5.3	.0	.0	3.8	3.0	.0	.0	6.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	.0	.0	.0	6.1
8-9	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	.0	6.8	.0	.0	6.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.3	9.8	2.3	.0	.0	20.5	.0	4.5	10.6	9.8	.0	.0	25.0

WGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	4.5	.0	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.1	3.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	3.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.6	3.0	3.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1970

MARCH

AREA 0001 BELLE ISLE STRAIT
50.6N 57.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.0	.0	.0	.0	.0	3.0	.0	6.1	.0	.0	.0	.0	6.1
1-2	.0	2.3	.0	.0	.0	.0	2.3	.0	.8	.0	.0	.0	.0	.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	3.0	.0	.0	.0	3.0	.0	.0	3.0	.0	.0	.0	3.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	3.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	3.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.3	3.0	.0	.0	.0	8.3	.0	6.8	3.0	3.0	3.0	.0	15.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.8	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	3.8	
3-4	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	3.0	.8	.0	.0	3.8	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	3.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	2.3	.0	.0	2.3	.0	3.8	3.8	3.8	.0	.0	11.4	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	21.2	3.0	.0	.0	.0	24.2	
1-2	.0	15.2	9.1	.0	.0	.0	24.2	
3-4	.0	3.0	9.1	.0	.0	.0	18.2	
5-6	.0	.0	.0	3.0	.0	.0	3.0	
7	.0	.0	12.1	.0	.0	.0	12.1	
8-9	.0	.0	.0	15.2	.0	.0	15.2	
10-11	.0	.0	.0	.0	3.0	.0	3.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	39.4	33.3	24.2	3.0	.0	100.0	33

PERIOD: (OVER-ALL) 1957-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	17.1	14.6	2.4	7.3	4.9	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	4
6-7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
8-9	.0	.0	.0	2.4	.0	.0	.0	.0	2.4	2.4	2.4	.0	.0	.0	.0	.0	.0	.0	.0	4	15
10-11	.0	2.4	2.4	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
12-13	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
TOTDET	14.6	2.4	.0	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	2
TOTAL	7	9	8	2	7	2	3	0	1	1	1	0	0	0	0	0	0	0	0	41	5
PCT	17.1	22.0	19.5	4.9	17.1	4.9	7.3	.0	2.4	2.4	2.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1965-1970
(OVER-ALL) 1876-1970

APRIC

AREA 0001 BELL ISLE STRAIT
50.6N 57.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WEA
N	1.5	.0	1.5	.0	24.0	.0	.0	26.9	4.0	.0	5.8	.0	.0	.0	63.3
NE	3.2	.0	.0	.0	29.0	.0	.0	29.7	.6	.0	5.2	.0	.0	.0	64.5
E	9.3	.0	11.1	.0	9.3	.0	.0	29.6	3.7	.0	17.6	.0	.0	.0	49.1
SE	15.8	3.2	3.2	3.2	7.2	.0	.0	20.4	6.4	.0	4.0	.0	.0	.0	59.2
S	15.0	.0	.0	.0	12.0	.0	.0	27.0	.0	.0	4.0	.0	.0	.0	64.0
SW	2.4	.0	.0	.0	17.2	.0	.0	19.6	3.8	.0	5.7	.0	.0	1.9	68.9
W	.0	.0	.0	1.7	32.0	.0	.0	33.7	4.5	.0	1.1	.0	.0	.0	90.7
NW	.0	.0	.0	.8	23.0	.0	.0	23.8	.0	.0	1.6	.0	.0	3.2	71.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	83.3
TOT PCT	4.6	.3	1.5	.6	20.3	.0	.0	26.8	3.1	.0	5.5	.0	.0	.6	64.0
TOT OBS:	325														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WEA
0000Z	6.8	.0	4.1	1.4	17.8	.0	.0	28.8	4.1	.0	1.4	.0	.0	2.7	63.0
0600Z	.0	.0	.0	.0	37.5	.0	.0	27.5	.0	.0	12.5	.0	.0	.0	50.0
1200Z	2.4	.0	1.6	.8	21.8	.0	.0	26.6	2.4	.0	8.9	.0	.0	.0	62.1
1800Z	5.8	.8	.0	.0	19.2	.0	.0	23.0	3.3	.0	4.2	.0	.0	.0	67.5
TOT PCT	4.6	.3	1.5	.6	20.3	.0	.0	26.8	3.1	.0	5.5	.0	.0	.6	64.0
TOT OBS:	325														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.7	3.3	9.2	6.7	1.9	.0		21.7	19.5	13.3	16.2	15.0	.0	25.7	28.0	20.2	24.5
NE	.5	2.8	5.2	4.2	.4	.0		13.1	17.9	14.1	7.4	25.0	.0	13.4	7.5	17.1	17.5
E	.3	4.4	3.3	.5	.5	.0		8.9	12.9	7.7	5.9	.0	.0	15.4	11.9	4.5	7.0
SE	.1	4.8	3.9	.3	.1	.0		9.1	11.2	11.3	5.9	.0	.0	3.8	12.7	10.3	11.0
S	.5	2.8	3.3	.7	.2	.0		7.6	13.1	10.5	10.3	10.0	.0	5.5	3.8	13.0	2.0
SW	.6	2.8	5.5	5.0	1.2	.0		15.2	18.9	12.9	19.1	10.0	.0	12.7	19.5	11.0	22.5
W	.3	2.4	6.5	3.5	.3	.0		12.9	16.9	9.7	22.1	10.0	.0	12.3	13.1	14.1	12.0
NW	.0	2.0	4.3	3.2	.3	.0		9.7	18.0	17.3	13.2	30.0	.0	8.6	6.8	7.5	3.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	3.2	.0	.0	.0	2.7	1.7	1.4	.0
TOT OBS	16	87	141	83	17	0	344		16.6	62	17	10	0	73	59	73	50
TOT PCT	4.7	25.3	41.0	24.1	4.9	.0		100.0		100.0	100.0	100.0	.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+					00	03	06	09	12	18
N	2.1	6.5	8.4	4.0	.7			21.7	19.5	13.9	15.0	26.7	22.0		
NE	2.3	3.3	5.2	2.1	.1			13.1	17.9	12.7	25.0	8.5	17.3		
E	2.3	4.2	1.5	1.0	.0			8.9	12.9	7.3	.0	13.8	5.5		
SE	1.7	6.5	.8	.1	.0			9.1	11.2	10.1	.0	7.8	10.6		
S	1.6	4.5	.8	.4	.2			7.6	13.1	10.4	10.0	4.7	8.5		
SW	1.5	5.0	5.0	3.6	.1			15.2	18.9	14.2	10.0	15.7	15.7		
W	1.5	5.2	4.9	1.1	.3			12.9	16.9	12.3	10.0	12.7	13.8		
NW	.6	4.2	3.3	1.6	.0			9.7	18.0	16.5	30.0	7.8	5.9		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	1.7							1.7	.0	2.5	.0	2.3	.8		
TOT OBS	32	136	103	48	5	344			16.6	79	10	132	123		
TOT PCT	15.1	39.5	29.9	14.0	1.5			100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1965-1970
(OVER-ALL) 1878-1970

APRIL

AREA 0001 BELLE ISLE STRAIT
50.6N 57.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	2.5	1.3	22.8	43.0	22.8	7.6	.0	17.0	100.0		79
06009	.0	10.0	40.0	50.0	.0	.0	.0	9.9	100.0		10
12015	2.9	4.5	27.3	38.6	22.7	4.5	.0	19.7	100.0		132
18021	.8	1.6	23.6	41.5	28.5	4.1	.0	17.7	100.0		123
TOT	6	10	87	141	83	17	.0	18.6			344
PCT	1.7	2.9	25.3	41.0	24.1	4.9	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (FIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.0	.0	4.7	10.4		6.4
NE	2.3	.4	2.8	6.4		6.1
E	1.0	.9	1.5	4.3		6.2
SE	.1	.6	3.0	3.5		7.1
S	.8	.9	1.8	3.2		6.5
SW	4.9	1.8	4.6	6.8		5.1
W	3.0	1.6	4.6	5.4		5.3
NW	1.8	.8	3.1	4.2		5.6
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	.7	.7		5.3
TOT OBS	30	20	77	141	288	5.9
TOT PCT	17.4	8.9	26.7	49.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ NH <5/8 ANY HGT	TOTAL OBS
N	1.1	.0	1.2	1.7	3.0	3.2	.3	.0	.0	.9	6.8
NE	1.1	.0	1.2	.9	1.5	2.5	.1	.0	.0	.4	4.2
E	.5	.0	.3	.0	2.5	.0	.0	.0	.0	.9	3.4
SE	.3	.0	.1	.3	1.0	.7	.2	.0	1.7	.5	4.3
S	.7	.0	.0	1.0	.6	.3	.9	.0	.0	.3	4.9
SW	1.0	.0	1.9	1.2	1.3	1.8	.4	.0	.0	1.0	9.7
W	.7	.4	.6	1.6	2.9	.6	.3	.0	.3	.3	6.8
NW	.7	.0	.3	1.8	1.5	1.2	.0	.0	.0	.2	4.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.3	.0	.0	.0	.0	.0	.3	.0	1.4
TOT OBS	18	1	16	25	41	30	6	0	7	13	288
TOT PCT	6.3	.3	5.6	8.7	14.2	10.4	2.1	.0	2.4	4.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.8	6.3	6.3	6.3	6.3	6.3	6.3	6.3
= OR >5000	2.8	6.3	6.3	6.3	6.3	6.3	6.3	6.3
= OR >3500	2.8	7.7	8.4	8.4	8.4	8.4	8.4	8.4
= OR >2000	6.0	15.4	18.2	18.6	18.9	18.9	18.9	18.9
= OR >1000	7.4	21.1	28.4	31.6	33.0	33.0	33.0	33.0
= OR >600	9.1	24.6	33.3	38.6	41.4	41.8	41.8	41.8
= OR >300	9.1	25.6	35.1	42.8	46.3	47.4	47.4	47.4
= OR >150	9.1	25.6	35.4	43.2	46.7	47.7	47.7	47.7
= OR >0	9.1	26.0	36.1	44.9	49.5	53.0	54.0	54.0
TOTAL	26	74	103	128	141	151	154	154

TOTAL NUMBER OF OBS: 285

PCT FREQ NH <5/8: 46.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (FIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	17.3	8.2	8.2	7.1	3.7	4.1	6.1	6.8	32.3	6.1	294

PERIOD: (PRIMARY) 1965-1970
(OVER-ALL) 1878-1970

APRIL

AREA 0001 BELL ISLE STRAIT
50.6N 57.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.8	1.1	.8	1.2	.3	.7	.0	.3	.0	.0	5.5	
	NO PCP	.6	.3	1.2	.3	.3	.3	.0	.3	.0	.0	3.4	
	TOT %	2.4	1.4	2.1	1.5	.6	.4	.0	.6	.0	.0	8.9	
1/2<1	PCP	1.2	.7	.0	.3	.6	.1	1.2	.0	.0	.0	4.0	
	NO PCP	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.6	
	TOT %	1.5	.7	.0	.3	.6	.4	1.2	.0	.0	.0	4.6	
1<2	PCP	1.0	1.4	.2	.0	.6	1.6	1.4	.5	.0	.0	6.8	
	NO PCP	.0	.3	.2	.1	.0	.3	.0	.0	.0	.3	1.2	
	TOT %	1.0	1.7	.5	.1	.6	1.9	1.4	.5	.0	.3	8.0	
2<5	PCP	.8	.4	1.4	.8	.2	.8	1.5	.8	.0	.0	6.8	
	NO PCP	1.3	1.4	.5	.7	.0	2.2	.4	.2	.0	.0	6.8	
	TOT %	2.2	1.8	1.9	1.5	.2	3.0	1.9	1.1	.0	.0	13.5	
5<10	PCP	.5	.0	.0	.0	.3	.7	.5	.3	.0	.0	2.8	
	NO PCP	4.5	3.0	2.5	2.8	2.5	4.1	4.5	3.6	.0	.6	32.3	
	TOT %	9.5	3.0	2.5	2.8	2.8	4.8	5.1	3.9	.0	.6	35.1	
10+	PCP	.0	.0	.0	.6	.0	.0	.0	.3	.0	.0	.9	
	NO PCP	4.7	3.4	1.3	2.8	2.8	5.7	4.2	3.2	.0	.9	28.9	
	TOT %	4.7	3.4	1.3	3.4	2.8	5.7	4.2	3.5	.0	.9	29.8	
TOT OBS													325
TOT PCT													
		21.2	11.9	8.3	9.6	7.7	16.1	13.7	9.7	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.6	.6	1.5	1.5	.3	.3	.0	.0	.0	.0	4.9	
	11-21	.5	.2	.0	.0	.3	.0	.0	.3	.0	.0	1.2	
	22+	1.3	.6	.2	.0	.0	.0	.0	.3	.0	.0	2.5	
	TOT %	2.4	1.4	2.1	1.5	.6	.3	.0	.6	.0	.0	8.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	.0	.0	.6	.0	.0	.0	.0	.0	.9	
	11-21	.3	.3	.0	.3	.0	.1	.8	.0	.0	.0	1.8	
	22+	.8	.4	.0	.0	.0	.3	.3	.0	.0	.0	1.8	
	TOT %	1.5	.7	.0	.3	.6	.4	1.2	.0	.0	.0	4.6	
1<2	0-3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.6	
	4-10	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.5	.4	.2	.0	.0	1.3	1.1	.5	.0	.0	4.0	
	22+	.5	1.0	.2	.1	.3	.6	.3	.1	.0	.0	3.1	
	TOT %	1.0	1.7	.5	.1	.6	1.9	1.4	.5	.0	.3	8.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.4	.8	.4	.2	.8	.7	.5	.0	.0	4.0	
	11-21	.8	.9	.8	.8	.0	.6	.5	.5	.0	.0	4.9	
	22+	1.1	.5	.3	.3	.0	1.6	.8	.1	.0	.0	4.6	
	TOT %	2.2	1.8	1.9	1.5	.2	3.0	1.9	1.1	.0	.0	13.5	
5<10	0-3	.2	.1	.0	.0	.0	.0	.3	.0	.0	.6	1.2	
	4-10	1.5	.7	1.2	1.7	1.0	.8	.8	.7	.0	.0	8.3	
	11-21	4.8	1.0	1.1	1.2	1.6	2.1	2.1	1.8	.0	.0	15.7	
	22+	2.9	1.2	.3	.0	.2	1.9	1.8	1.4	.0	.0	9.8	
	TOT %	9.5	3.0	2.5	2.8	2.8	4.8	5.1	3.9	.0	.6	35.1	
10+	0-3	.5	.2	.0	.1	.2	.6	.0	.0	.0	.9	2.5	
	4-10	.9	.9	.8	1.5	.8	1.2	1.0	.9	.0	.0	8.0	
	11-21	1.5	1.4	.5	1.8	1.2	1.8	2.4	1.1	.0	.0	11.7	
	22+	1.8	.9	.0	.0	.5	2.2	.8	1.5	.0	.0	7.7	
	TOT %	4.7	3.4	1.3	3.4	2.8	5.7	4.2	3.5	.0	.9	29.8	
TOT OBS													325
TOT PCT													
		21.2	11.9	8.3	9.6	7.7	16.1	13.7	9.7	.0	1.8	100.0	

APRIL

PERIOD: (PRIMARY) 1965-1970
(OVER-ALL) 1878-1970AREA 0001 NELLIS ISLE STRAIT
50.6N 57.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	7.6	.0	4.5	4.5	9.1	12.1	3.0	.0	4.5	4.5	50.0	50.0	66
06009	75.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75.0	25.0	4
12015	4.5	.9	9.1	6.4	20.9	10.9	.9	.0	1.8	4.5	60.0	40.0	110
18021	4.6	.0	2.8	13.9	11.1	9.3	2.8	.0	1.9	4.6	50.9	49.1	108
TOT	18	1	16	25	41	30	6	0	7	13	157	131	288
PCT	6.3	.3	5.6	8.7	14.2	10.4	2.1	.0	2.4	4.5	54.5	45.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	13.7	5.5	5.5	9.6	42.5	23.3	73
06009	12.5	.0	.0	12.5	25.0	50.0	8
12015	9.7	4.0	8.9	12.9	37.1	27.4	124
18021	5.0	5.0	9.7	16.7	29.2	35.0	120
TOT	29	15	26	44	114	97	325
PCT	8.9	4.6	8.0	13.5	35.1	29.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ ANY	NM <5/8 AND 5+	TOTAL OBS
00003	7.9	15.9	31.7	20.6	47.6	63
06009	75.0	75.0	75.0	.0	25.0	4
12015	4.5	18.2	39.1	24.4	34.5	110
18021	4.6	12.0	40.7	16.7	42.6	108
TOT	18	46	110	60	115	288
PCT	6.3	16.1	38.6	21.1	40.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	1.1	.0	.0	3	1.1
40/44	.0	.0	.4	.7	2.5	.7	1.1	.4	16	5.8
35/39	.0	.0	.0	.4	2.2	4.3	6.1	5.0	50	18.0
30/34	.0	.0	.0	.0	1.1	7.2	12.9	20.5	116	41.7
25/29	.0	.0	.0	.7	1.4	4.3	8.3	4.7	54	19.4
20/24	.0	.0	.0	.7	.7	4.0	2.9	5.0	37	13.3
15/19	.0	.0	.0	.0	.0	.7	.0	.0	2	.7
TOTAL	0	0	1	7	22	62	87	99	278	100.0
PCT	.0	.0	.4	2.5	7.9	22.3	31.3	35.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0
.5	.4	.7	2.5	.0	.7	.0	.8	.0	.0
1.4	1.2	1.5	3.3	3.9	3.7	1.7	.9	.0	.4
10.9	5.6	3.2	2.4	3.3	7.6	4.0	3.3	.0	1.4
2.6	3.1	2.0	.1	.9	4.4	3.3	2.6	.0	.4
2.0	.4	.4	.0	.5	2.3	5.7	2.0	.0	.0
.5	.1	.0	.0	.0	.0	.0	.1	.0	.0
18.0	16.9	7.8	9.4	8.6	18.7	14.7	9.7	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	42	41	37	31	23	20	20	30.3	78
06009	42	41	41	32	23	23	23	32.0	10
12015	48	44	42	32	21	19	18	31.7	132
18021	53	45	43	34	24	22	22	33.7	122
TOT	53	43	42	32	22	20	18	32.1	342

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	66
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	110
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	108
TOT	0	8	22	62	87	99	64	278		

PERIOD: (PRIMARY) 1965-1970
(OVER-ALL) 1878-1970

APRIL

AREA 0001 BELL ISLE STRAIT
50.6N 57.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.8	1.7	.8	4	.0	3.3
9/10	.0	.0	.0	.0	.0	.0	1.7	.8	.0	3	.0	2.5
7/8	.0	.0	.0	.0	.0	.8	1.7	.0	.0	3	.0	2.5
6	.0	.0	.0	.0	2.5	3.3	.0	.0	.0	7	.0	5.8
5	.0	.0	.0	.0	.8	5.0	.0	.0	.0	7	.8	5.0
4	.0	.0	.0	.0	7.4	3.3	.0	.0	.0	13	5.0	5.8
3	.0	.0	.0	3.3	11.6	.0	.0	.0	.0	18	.8	14.0
2	.0	.0	.0	6.6	6.6	.8	.0	.0	.0	17	1.7	12.4
1	.0	.0	.0	6.6	2.5	.0	.0	.0	.0	11	.0	9.1
0	.0	.0	.0	5.0	.8	.0	.8	.0	.0	8	.0	6.6
-1	.0	.0	.0	5.0	1.7	.0	.0	.0	.0	8	.0	6.6
-2	.0	.0	.0	.8	.0	.0	.0	.0	.0	1	.0	.8
-3	.0	.0	1.7	.8	.0	.0	.0	.0	.0	3	.0	2.5
-4	.0	.0	.8	.8	.0	.0	.0	.0	.0	2	.0	1.7
-5	.0	.0	1.7	2.5	.8	.0	.0	.0	.0	6	.0	5.0
-6	.0	.8	.0	.4	.0	.0	.0	.0	.0	2	.0	1.7
-7/-8	.8	3.3	.0	.0	.0	.0	.0	.0	.0	5	.0	4.1
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.8
-11/-13	.8	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.8
-14/-16	.8	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.8
TOTAL	3	6	5	39	42	16	6	3	1	121	8.3	91.7
PCT	2.5	5.0	4.1	32.2	34.7	13.2	5.0	2.5	.8	100.0	8.3	91.7

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	1.5	.0	.0	.0	.0	2.7	.4	.0	.0	.0	.0	.0	.4
1-2	.0	1.5	.0	.0	.0	.0	6.1	.0	1.5	6.4	.0	.0	.0	8.0
3-4	.0	1.1	1.5	1.5	.0	.0	4.2	.0	.0	4.5	.0	.0	.0	4.5
5-6	.0	.0	.0	2.7	.0	.0	2.7	.0	.0	.0	4.9	.0	.0	4.9
7	.0	.0	1.1	2.7	2.7	.0	6.4	.0	.0	.0	3.8	.4	.0	4.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.2	7.2	6.8	2.7	.0	22.0	.4	1.5	11.0	10.2	.4	.0	23.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.4	.0	.0	.0	.4
1-2	.0	2.7	1.1	.0	.0	.0	3.8	.0	.4	3.0	.0	.0	.0	3.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	3.0
5-6	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	2.3	2.7	.0	.0	7.6	.0	.4	6.4	.0	.0	.0	6.8

PERIOD: (OVER-ALL) 1963-1970

APRIL

AREA 0001 BELLE ISLE STRAIT
50.6N 57.2W

TABLE 18 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.4	.0	.0	.0	.4
1-2	.0	1.5	1.5	.0	.0	.0	3.0	.0	1.9	3.0	.0	.0	.0	4.9
3-4	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.9	1.5	.0	4.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	3.0	.0	.0	.0	4.5	1.5	1.9	4.9	1.9	4.5	.0	14.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	1.5	.0	.0	.0	1.5	
1-2	.0	2.7	2.7	.0	.0	.0	5.3	.0	.0	3.4	.0	.0	.0	3.4	
3-4	.0	.0	.0	1.1	.0	.0	1.1	.0	.4	.0	.4	.0	.0	.8	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5	
7	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.8	1.5	.0	.0	2.3	
8-9	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.7	4.9	2.3	.0	.0	9.8	.0	.4	5.7	4.9	.0	.0	11.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.5	1.5	6.1	.0	.0	.0	9.1	
1-2	.0	12.1	25.8	.0	.0	.0	37.9	
3-4	1.5	1.5	9.1	.0	.0	.0	15.2	
5-6	.0	.0	.0	1.5	1.5	.0	12.1	
7	.0	.0	3.0	9.1	3.0	.0	15.2	
8-9	.0	.0	1.5	3.0	1.5	.0	6.1	
10-11	.0	.0	.0	3.0	1.5	.0	4.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.0	15.2	45.5	24.8	7.6	.0	100.0	66

PERIOD: (OVER-ALL) 1951-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.7	27.1	12.9	7.1	10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	3
6-7	.0	.0	1.4	4.3	1.4	5.7	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
8-9	.0	.0	.0	1.4	1.4	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
10-11	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
12-13	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	13
>13	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	20
INDEX	2.9	5.7	.0	.0	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
TOTAL	6	23	10	9	10	5	5	1	1	1	1	1	1	1	1	1	1	1	1	70	4
PCT	8.6	32.9	14.3	12.9	14.3	7.1	7.1	.0	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1886-1970
(OVER-ALL) 1874-1970

MAY

AREA 0001 BELLE ISLE STRAIT
50.8N 96.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FR7G PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY PLWG DUST	NO SIG WFA
N	15.7	.0	4.5	.0	27.0	.0	.0	47.2	.0	.0	11.2	.0	.0	.0	41.0
NE	11.1	.0	14.8	.0	3.7	.0	.0	29.6	7.4	.0	31.5	.0	.0	.0	31.5
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.4	.0	.0	.0	22.0
SE	.0	9.8	.0	.0	.0	.0	.0	9.8	.0	.0	14.6	.0	9.8	.0	65.9
S	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	24.8	4.0	.0	.0	68.3
SW	3.3	.0	.0	.0	.0	.0	.0	3.3	3.3	.0	24.2	2.6	.0	.0	66.7
W	8.1	.0	.0	.0	10.8	.0	.0	18.9	.0	.0	.0	.0	.0	.0	81.1
NW	.0	10.3	.0	.0	47.4	.0	.0	57.9	.0	.0	2.6	.0	.0	.0	39.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	18.2	.0	.0	.0	.0	18.2	.0	.0	9.1	9.1	.0	.0	63.0
TOT PCT	4.8	1.4	3.4	.0	8.3	.0	.0	17.9	2.1	.0	17.9	2.1	.7	.0	59.3
TOT OBS:	145														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FR7G PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WEA
0000Z	6.8	2.3	.0	.0	13.6	.0	.0	22.7	2.3	.0	18.2	.0	.0	.0	56.8
0600Z	5.3	.0	5.3	.0	.0	.0	.0	10.5	.0	.0	26.3	.0	.0	.0	63.2
1200Z	2.1	.0	6.3	.0	8.3	.0	.0	16.7	.0	.0	22.9	4.2	2.1	.0	54.2
1800Z	5.1	2.6	2.6	.0	5.1	.0	.0	15.4	5.1	.0	5.1	2.6	.0	.0	71.8
TOT PCT TOT OBS:	4.7 150	1.3	3.3	.0	8.0	.0	.0	17.3	2.0	.0	17.3	2.0	.7	.0	60.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEEN (KNOTS)							48+	TOTAL DBS	PCT FRQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.1	4.2	9.4	3.2	1.1	.0		15.1	16.8	14.7	30.8	17.9	.0	12.1	28.8	10.6	7.1	
NF	.2	1.9	4.7	1.9	.0	.0		8.8	14.5	8.1	.0	25.0	.0	11.4	1.9	11.5	.0	
E	.5	2.6	1.9	.6	.0	.0		5.7	10.2	5.9	7.7	.0	.0	7.9	.0	7.7	7.1	
SF	.5	4.5	1.9	.0	.0	.0		7.0	8.3	2.9	.0	16.1	.0	14.3	7.7	3.8	3.6	
S	1.6	7.5	7.1	1.1	.0	.0		17.4	10.8	20.6	15.4	17.9	.0	17.9	13.5	16.3	21.4	
SW	.6	11.9	11.9	.8	.0	.0		25.2	12.0	27.2	46.2	23.2	40.0	14.3	25.0	26.0	23.2	
W	.6	4.4	1.9	.5	.0	.0		7.3	10.3	6.6	.0	.0	20.0	5.7	11.5	10.6	12.5	
NW	.6	1.9	2.3	1.5	.2	.0		6.5	15.0	8.1	.0	.0	20.0	7.9	3.8	5.8	10.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	7.1							7.1	.0	5.9	.0	.0	20.0	8.6	7.7	7.7	14.3	
TOT DBS	20	60	57	15	2	0	154		11.6	34	13	14	5	35	13	26	14	
TOT PCT	13.0	39.0	37.0	9.7	1.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	1.8	6.0	4.9	1.8	.6			15.1	16.8		19.1	13.2	16.7	9.4
NE	1.5	3.4	3.9	.0	.0			8.8	14.5		5.9	18.4	8.9	7.5
E	3.1	1.3	1.3	.0	.0			5.7	10.2		6.4	.0	5.7	7.5
SE	1.8	5.2	.0	.0	.0			7.0	8.3		2.1	11.8	12.5	3.8
S	3.4	10.9	3.1	.0	.0			17.4	10.8		19.1	13.2	16.7	18.1
SW	4.7	14.3	6.2	.0	.0			25.2	12.0		32.4	27.6	17.2	25.0
W	1.3	5.0	1.0	.0	.0			7.3	10.3		4.8	5.3	7.3	11.3
NW	.6	2.6	3.1	.2	.0			6.5	15.0		5.9	5.3	6.8	7.5
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	7.1							7.1	.0		4.3	5.3	8.3	10.0
TOT DBS	19	75	36	3	1	154			11.6		47	19	48	40
TOT PCT	25.3	48.7	23.4	1.9	.6			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1886-1970
(OVER-ALL) 1874-1970

MAY

AREA 0001 BELL ISLE STRAIT
50.8N 56.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	4.3	4.3	40.4	42.6	4.3	4.3	.0	12.7	100.0	47
0600	5.3	5.3	57.9	26.3	5.3	.0	.0	9.4	100.0	19
1200	8.3	8.3	39.6	37.5	6.3	.0	.0	10.5	100.0	48
1800	10.0	5.0	27.5	35.0	22.5	.0	.0	12.6	100.0	40
TOT	11	9	60	57	15	2	0	11.6		154
PCT	7.1	5.8	39.0	37.0	9.7	1.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.0	.0	12.4		7.5
NE	.0	.0	2.1	12.7		7.8
E	.0	1.1	2.1	2.1		4.6
SE	1.1	1.1	1.1	2.9		5.9
S	4.3	.8	3.2	6.1		5.4
SW	2.1	6.4	4.3	13.8		6.0
W	2.1	.0	.8	3.7		5.6
NW	.0	.0	.3	5.6		7.9
VAR	.0	.0	.0	.0		.0
CALM	4.3	.0	2.1	1.1		3.5
TOT OBS	14	9	15	56	94	6.3
TOT PCT	14.9	9.6	16.0	59.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT. NH >4/4)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	499	999	1999	3499	4999	6499	7999			
1.6	.0	2.7	2.1	1.9	1.3	.8	1.1	.0	.0	1.1	
2.4	.0	.5	3.2	.0	4.0	1.1	1.1	.0	.0	2.1	
.0	.0	.0	.0	.0	2.1	.0	.0	.0	1.1	2.1	
.0	.0	1.1	.0	1.3	.0	.0	.0	.0	.0	3.7	
.0	.0	1.1	1.1	2.7	.0	.0	1.1	.0	.0	7.7	
2.1	.0	.3	5.3	4.5	1.1	.0	1.1	1.1	.0	11.2	
.0	.0	2.1	.0	.0	.0	1.1	.0	.0	.0	2.9	
.3	1.1	2.9	.0	.3	1.1	.3	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	2.1	.0	1.1	.0	.0	.0	.0	4.3	
6	1	11	13	10	16	3	4	1	2	33	94
6.4	1.1	11.7	13.8	10.6	10.6	3.2	4.3	1.1	2.1	35.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/4) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
= OR >5000	5.3	7.4	7.4	7.4	7.4	7.4	7.4	7.4
= OR >3500	6.4	10.6	10.6	10.6	10.6	10.6	10.6	10.6
= OR >2000	10.6	19.1	21.3	21.3	21.3	21.3	21.3	21.3
= OR >1000	14.9	29.8	31.9	31.9	31.9	31.9	31.9	31.9
= OR >600	17.0	35.1	44.7	45.7	45.7	45.7	45.7	45.7
= OR >300	17.0	35.1	50.0	56.4	56.4	57.4	57.4	57.4
= OR >150	17.0	35.1	50.0	57.4	57.4	58.5	58.5	58.5
= OR >0	17.0	35.1	50.0	57.4	57.4	60.6	64.9	64.9
TOTAL	16	33	47	54	54	57	61	61

TOTAL NUMBER OF OBS: 94

PCT FREQ NH <5/8: 35.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.7	10.8	4.9	3.9	2.9	1.0	5.9	10.8	39.2	5.9	102

PERIOD: (PRIMARY) 1886-1970
(OVER-ALL) 1874-1970

MAY

AREA 0001 BELLE ISLE STRAIT
50.8N 56.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.0	1.6	.0	.0	3.4	2.8	.0	.2	.0	.7	9.7	
	TOT %	1.0	1.6	.0	.0	3.4	2.8	.0	.2	.0	.7	9.7	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
1<2	PCP	1.0	1.0	.0	.0	.0	.0	.3	1.7	.0	.0	4.1	
	NO PCP	.0	.0	.0	.7	.5	.2	.0	.0	.0	.0	1.4	
	TOT %	1.0	1.0	.0	.7	.5	.2	.3	1.7	.0	.0	5.5	
2<5	PCP	2.4	.0	.0	.0	.0	.2	.5	1.7	.0	.7	5.5	
	NO PCP	.7	.7	.7	.0	.7	2.8	.5	.2	.0	.0	6.2	
	TOT %	3.1	.7	.7	.0	.7	2.9	1.0	1.9	.0	.7	11.7	
5<10	PCP	3.8	1.7	.0	.7	.0	.7	.3	.3	.0	.0	7.6	
	NO PCP	3.3	2.2	1.2	2.8	3.6	9.8	2.6	1.4	.0	.7	27.6	
	TOT %	7.1	4.0	1.2	3.4	3.6	10.4	2.9	1.7	.0	.7	35.2	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
	NO PCP	3.1	2.1	2.1	2.9	9.1	9.8	2.1	1.0	.0	4.8	36.6	
	TOT %	3.1	2.1	2.1	2.9	9.1	9.8	2.1	1.0	.0	5.5	37.2	
TOT OBS													
TOT PCT													
		15.3	9.3	4.0	7.1	17.4	26.4	6.4	6.6	.0	7.6	100.0	145

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	1.4	
	4-10	.5	.7	.0	.0	1.4	1.4	.0	.2	.0	.0	4.1	
	11-21	.5	.9	.0	.0	1.4	1.4	.0	.0	.0	.0	4.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.0	1.5	.0	.0	3.4	2.7	.0	.2	.0	.7	9.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.5	.2	.0	.0	.0	.0	.7	
	11-21	1.0	.3	.0	.7	.0	.0	.3	1.0	.0	.0	3.4	
	22+	.0	.7	.0	.0	.0	.0	.0	.7	.0	.0	1.4	
	TOT %	1.0	1.0	.0	.7	.5	.2	.3	1.7	.0	.0	5.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.7	.0	.7	1.4	
	4-10	.7	.0	.7	.0	.7	1.5	.5	.0	.0	.0	4.1	
	11-21	1.7	.0	.0	.0	.0	1.4	.0	.3	.0	.0	3.4	
	22+	.7	.7	.0	.0	.0	.0	.5	.9	.0	.0	2.7	
	TOT %	3.1	.7	.7	.0	.7	2.9	1.0	1.9	.0	.7	11.6	
5<10	0-3	.5	.2	.5	.2	.0	.0	.0	.0	.0	.7	2.0	
	4-10	1.4	.7	.7	2.6	1.7	6.6	2.0	.7	.0	.0	16.3	
	11-21	1.7	2.4	.0	.7	1.2	3.7	.9	1.0	.0	.0	11.6	
	22+	3.4	.7	.0	.0	.7	.0	.0	.0	.0	.0	4.8	
	TOT %	7.0	3.9	1.2	3.4	3.6	10.4	2.9	1.7	.0	.7	34.7	
10+	0-3	.7	.0	.0	.3	1.0	.0	.7	.0	.0	5.4	8.2	
	4-10	1.9	.7	1.4	2.2	2.9	2.4	1.4	.9	.0	.0	13.6	
	11-21	.0	1.4	.7	.7	4.9	6.0	.7	.0	.0	.0	14.3	
	22+	.5	.0	.0	.0	.5	.9	.0	.2	.0	.0	2.0	
	TOT %	3.1	2.0	2.0	3.2	9.4	9.2	2.7	1.0	.0	5.4	38.1	
TOT OBS													
TOT PCT													
		15.1	9.2	3.9	7.3	17.5	26.0	7.0	6.9	.0	7.5	100.0	147

PERIOD: (PRIMARY) 1886-1970
(OVER-ALL) 1874-1970

MAY

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50.8N 56.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 249	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	12.0	.0	24.0	.0	8.0	8.0	.0	4.0	.0	.0	56.0	44.0	25
06009	15.4	.0	.0	15.4	15.4	7.7	.0	7.7	.0	.0	61.5	38.5	13
12015	3.4	3.4	6.9	20.7	6.9	10.3	6.9	.0	.0	6.9	65.5	34.5	29
18021	.0	.0	9.4	15.6	12.5	12.5	3.1	6.3	3.1	.0	62.9	37.5	32
TOT PCT	6 6.1	1 1.0	11 11.1	13 13.1	10 10.1	10 10.1	3 3.0	4 4.0	1 1.0	7 2.0	61 61.6	38 38.4	99 100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	17.8	.0	6.7	6.4	33.3	37.8	45
06009	10.5	.0	5.3	15.8	31.6	36.8	19
12015	8.3	2.1	4.7	14.6	47.9	22.9	48
18021	.0	.0	5.0	12.5	27.5	55.0	40
TOT PCT	14 9.2	1 .7	8 5.3	17 11.2	55 36.2	57 37.5	152 107.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	14.3	42.9	42.9	23.8	33.3	21
06009	15.4	15.4	38.5	30.8	30.8	13
12015	3.4	13.8	34.5	31.0	34.5	29
18021	.0	9.7	32.3	32.3	35.5	31
TOT PCT	6 6.4	18 19.1	34 36.2	28 29.8	92 94.0	94 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FRFQ
50/54	.0	.0	.0	.0	.0	.0	1.0	.0	1	1.0
45/49	.0	.0	.0	.0	.0	1.0	.0	1.0	2	2.1
40/44	.0	.0	.0	.0	3.1	4.2	14.6	5.2	26	27.1
35/39	.0	.0	.0	.0	.0	11.5	12.5	16.7	39	40.6
30/34	.0	.0	.0	.0	.0	1.0	9.4	18.8	28	29.2
TOTAL	0	0	0	0	3	17	36	40	96	100.0
PCT	.0	.0	.0	.0	3.1	17.7	37.5	41.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.8	.0	.0	.0	.0	.0	.0	.3	.0	.0
.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0
3.1	4.2	1.0	2.1	5.2	8.3	1.0	.0	.0	2.1
5.7	1.8	2.1	3.4	6.3	12.2	3.1	.8	.0	3.1
2.6	4.7	1.0	1.0	3.9	7.0	2.9	4.9	.0	1.0
12.2	11.7	4.2	6.5	17.4	28.6	7.0	6.0	.0	6.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	59	58	55	37	31	27	27	37.8	48
06009	43	42	42	37	32	32	32	36.5	18
12015	48	47	44	38	31	26	26	37.3	49
18021	60	59	47	39	31	27	27	39.0	41
TOT	60	59	45	38	31	27	26	37.8	156

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	3.8	7.7	47.3	46.2	88	26
06009	.0	.0	.0	15.4	46.2	38.5	88	13
12015	.0	.0	.0	17.2	34.5	48.3	88	29
18021	.0	.0	6.9	27.6	31.0	34.5	84	29
TOT	0	0	3	17	36	41	87	97

PERIOD: (PRIMARY) 1886-1970
(OVER-ALL) 1874-1970

MAY

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90.0N 56.7W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	WD FOG
11/13	.0	.0	.0	.0	2.9	.0	.0	3	.0	2.9
9/10	.0	.0	.0	6.7	2.9	1.0	.0	11	.0	10.5
7/8	.0	.0	1.0	7.6	.0	.0	.0	9	.0	8.6
6	.0	.0	1.0	6.7	2.9	1.0	.0	12	1.0	10.5
5	.0	.0	1.9	5.7	1.0	.0	.0	9	1.9	6.7
4	.0	.0	1.9	1.9	.0	.0	.0	4	1.0	2.9
3	.0	.0	5.7	5.7	1.0	.0	1.0	14	3.8	9.5
2	.0	1.9	2.9	5.7	.0	1.0	.0	12	1.9	9.5
1	.0	4.8	1.9	3.8	1.9	.0	.0	13	1.9	10.5
0	.0	1.0	2.9	3.8	.0	.0	.0	8	1.9	5.7
-1	.0	1.0	1.0	.0	.0	.0	.0	2	1.0	1.0
-2	.0	1.9	.0	1.0	.0	.0	.0	3	1.0	1.9
-3	1.0	1.0	1.0	.0	.0	.0	.0	3	.0	2.9
-4	.0	1.0	.0	.0	.0	.0	.0	1	.0	1.0
-7/-8	.0	.0	.0	.0	1.0	.0	.0	1	.0	1.0
TOTAL	1	13	22	51	14	3	1	105	16	89
PCT	1.0	12.4	21.0	48.6	13.3	2.9	1.0	100.0	15.2	84.8

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	4.8	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.8	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	4.8
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	9.5	.0	.0	.0	.0	9.5
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	9.5	.0	.0	.0	.0	9.5

PERIOD: (OVER-ALL) 1963-1970

MAY

AREA 0001 BELLE ISLE STRAIT
50.8N 56.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	11.9	.0	.0	.0	.0	11.9	.0	.0	7.1	.0	.0	.0	.0	.0	7.1
1-2	.0	8.3	.0	.0	.0	.0	8.3	.0	.0	10.7	.0	.0	.0	.0	.0	10.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	14.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	20.2	.0	.0	.0	.0	20.2	.0	17.0	15.3	.0	.0	.0	.0	.0	32.3

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	4.8	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	3.5	.0	.0	.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.5	.0	.0	.0	3.5	.0	.0	.0	4.8	.0	.0	.0	.0	4.8	70.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	28.6	23.8	.0	.0	.0	.0	52.4	
1-2	.0	23.8	4.8	.0	.0	.0	28.6	
3-4	.0	.0	14.3	.0	.0	.0	14.3	
5-6	.0	.0	4.8	.0	.0	.0	4.8	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	28.6	47.6	23.8	.0	.0	.0	100.0	21

PERIOD: (OVER-ALL) 1951-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.6	8.6	5.7	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	2
6-7	.0	.0	8.6	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
8-9	.0	.0	.0	.0	2.9	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	2.9	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	25.7	8.6	11.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	1
TOTAL	12	6	10	5	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	35	2
PCT	34.3	17.1	28.6	14.3	2.9	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1869-1971AREA 0001 BELLE ISLE STRAIT
90.9N 57.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRPL	FR7G PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WEA
N	12.1	1.5	6.3	.0	.8	.0	.0	20.7	2.1	.0	14.8	.8	.8	.0	60.7
NE	16.4	.8	5.2	.0	.0	.0	.0	22.5	2.5	.0	19.3	1.3	.0	.0	54.4
E	31.2	.0	6.5	.0	.0	.0	.0	17.6	4.2	.0	14.8	.0	3.0	.0	40.3
SE	14.0	2.4	.5	.0	.0	.0	.0	16.9	.5	.0	27.5	.0	2.4	.0	52.7
S	7.3	3.4	2.9	.0	.0	.0	.0	13.6	2.2	.0	23.1	.5	2.5	.0	58.1
SW	5.1	1.2	2.0	.0	.0	.0	.0	8.3	1.5	.4	15.4	.6	3.1	.0	70.7
W	4.3	1.8	.7	.0	.0	.0	.0	6.8	2.3	.9	14.3	.0	.9	.0	74.8
NW	9.0	1.5	2.3	.0	.0	.0	.0	12.8	2.3	.0	9.4	1.5	.0	.0	74.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.9	.0	.0	.0	.0	.0	.0	11.9	.0	.0	21.4	.0	.0	.0	66.7
TOT PCT	10.7	1.5	3.2	.0	.1	.0	.0	15.3	2.0	.2	17.4	.6	1.6	.0	62.6
TOT OBS:	981														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRPL	FR7G PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WEA
0000	12.5	1.1	2.2	.0	.0	.0	.4	16.2	1.8	.4	16.2	.7	1.5	.0	63.1
0600	12.4	1.3	6.2	.0	.4	.0	.0	20.4	2.7	.4	16.1	.0	.0	.0	58.4
1200	8.7	1.4	2.8	.0	.0	.0	.0	12.8	1.7	.0	19.1	.3	2.4	.0	63.5
1800	8.4	2.0	1.2	.0	.0	.0	.0	11.6	2.0	.0	16.4	1.2	2.0	.0	66.8
TOT PCT	10.4	1.4	3.0	.0	.1	.0	.1	15.1	2.0	.2	17.5	.6	1.5	.0	63.1
TOT OBS:	1035														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.0	4.6	4.9	1.2	.1	.1	11.8	12.7	11.4	10.0	13.7	9.6	14.0	13.8	9.0	10.2	
NE	1.1	6.4	6.1	1.8	.3	.0	15.8	13.0	17.9	19.0	15.2	10.6	14.2	12.9	17.2	15.3	
E	.5	3.0	2.3	.9	.1	.0	6.8	11.9	7.6	5.0	6.4	16.3	9.9	7.1	5.8	4.7	
SE	.7	3.3	1.1	.1	.0	.0	5.2	8.5	3.9	6.0	4.2	3.8	5.0	1.8	9.4	3.0	
S	.8	7.2	4.4	1.0	.0	.0	14.6	11.3	11.9	12.0	17.8	7.7	16.8	11.6	15.8	17.7	
SW	1.4	7.7	10.6	3.8	.3	.0	23.7	13.9	23.7	29.0	16.8	30.8	20.2	35.3	24.0	35.6	
W	.7	4.9	4.3	1.2	.2	.0	11.3	12.4	12.9	10.0	11.4	8.7	10.9	17.4	9.8	12.7	
NW	.3	2.7	2.6	1.0	.0	.0	6.6	12.9	6.2	5.0	6.7	8.7	8.7	.0	6.4	5.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.2						4.2	.0	4.5	4.0	7.6	3.8	4.2	.0	3.5	.0	
TOT OBS	113	415	391	114	11	2	1046	12.0	223	50	171	52	236	56	199	59	
TOT PCT	10.8	39.7	37.4	10.9	1.1	.2	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)			
	0-5	7-16	17-27	28-40	41+				00	06	12	18
N	2.7	6.0	2.5	.5	.1	11.8	12.7	11.2	12.8	14.0	9.3	
NE	3.8	7.2	3.9	.8	.1	15.8	13.0	18.1	14.1	14.0	16.8	
E	2.0	3.2	1.4	.3	.0	6.8	11.9	7.1	8.7	6.2	5.5	
SE	2.1	2.7	.3	.0	.0	5.2	8.5	4.3	4.1	4.4	7.9	
S	3.7	8.0	2.5	.3	.0	14.6	11.3	11.9	15.5	15.8	15.1	
SW	3.6	12.1	6.8	1.2	.0	23.7	13.9	24.6	20.1	23.1	26.6	
W	3.0	5.2	2.5	.5	.0	11.3	12.4	12.4	10.8	12.2	9.7	
NW	1.5	3.1	1.1	.2	.0	6.6	12.9	6.0	7.2	7.0	6.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.2					4.2	.0	4.4	6.7	3.4	2.7	
TOT OBS	278	497	227	41	3	1046	12.0	273	223	292	258	
TOT PCT	26.6	47.5	21.7	3.9	.3	100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1869-1971

JUNE

AREA 0001 BELLE ISLE STRAIT
50.9N 57.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CAIM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	4.4	5.9	41.8	37.0	10.3	.4	.4	11.9	100.0	273
06009	6.7	6.7	42.6	35.9	7.6	.4	.0	10.8	100.0	223
12015	3.4	6.8	38.4	38.0	12.0	1.0	.3	12.2	100.0	292
18021	2.7	7.0	36.4	38.4	13.2	2.3	.0	13.0	100.0	258
TOT	4.4	6.9	41.5	39.1	11.4	1.1	.2	12.0		1046
PCT	4.2	6.6	39.7	37.4	10.9	1.1	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	.3	2.3	8.3		6.8
NE	1.2	1.1	2.7	11.6		6.9
E	.4	.4	.9	4.8		7.0
SE	.6	.2	1.7	3.4		6.6
S	2.5	1.2	4.2	7.0		6.0
SW	6.2	2.4	6.4	7.0		5.0
W	2.9	.9	3.1	3.1		5.1
NW	1.6	.8	1.9	3.0		5.6
VAR	.0	.0	.0	.0		.0
CALM	1.1	.3	.7	2.7		5.7
TOT OBS	126	51	167	358	702	6.0
TOT PCT	17.9	7.3	23.8	51.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
1.6	.7	1.3	1.0	3.0	.5	.3	.1	.4	.3	3.6	
2.0	.7	.8	2.6	3.7	1.3	.7	.3	.2	.4	3.9	
.6	.7	1.1	1.2	1.1	.4	.4	.0	.0	.1	1.4	
1.4	.4	.0	.4	.8	.5	.2	.2	.1	.1	1.9	
2.2	.6	.0	.4	2.3	1.6	.6	.1	.3	.5	6.3	
2.8	.3	.1	.6	2.4	1.2	.4	.1	.2	.5	13.3	
1.0	.1	.0	.3	1.1	1.0	.4	.3	.2	.1	5.4	
.5	.0	*	.4	1.5	.7	.2	.3	.1	.3	2.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.9	.1	.3	.4	.3	.4	.0	.3	.0	.3	1.9	
.91	1.8	2.6	5.1	11.3	5.4	2.3	1.2	1.1	1.8	28.5	
13.0	2.6	9.7	7.3	16.1	7.7	3.3	1.7	1.6	2.6	40.6	
										100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.6	3.9	4.0	4.0	4.0	4.1	4.1	4.3
= OR >5000	3.6	5.5	5.7	5.7	5.7	5.8	5.8	5.9
= OR >3500	4.8	8.3	8.6	8.6	8.7	8.8	9.0	9.1
= OR >2000	9.5	15.3	16.3	16.4	16.7	16.9	17.1	17.3
= OR >1000	15.3	27.8	30.7	31.8	32.3	32.6	32.9	33.1
= OR >600	17.0	32.0	36.7	38.4	39.4	39.8	40.2	40.5
= OR >300	17.4	33.4	39.4	41.9	42.8	43.4	43.8	44.1
= OR >150	17.5	34.0	40.2	43.4	45.0	45.6	46.3	46.5
= OR >0	18.0	34.4	41.6	45.4	48.3	51.2	57.3	59.5
TOTAL	130	249	301	329	350	371	415	431

TOTAL NUMBER OF OBS: 724

PCT FREQ NH <5/8: 40.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.6	10.2	9.2	6.2	2.9	3.7	7.0	8.2	29.3	11.7	758

PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1869-1971

JUNE

AREA 0001 BELLE ISLE STRAIT
30.9N 57.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.4	.1	.1	.3	.4	.1	.0	.0	.1	1.4	
	NO PCP	.9	1.6	.3	1.1	2.0	2.3	1.1	.3	.0	.4	10.0	
	TOT %	1.0	1.9	.4	1.1	2.3	2.7	1.2	.3	.0	.5	11.4	
1/2<1	PCP	.0	.7	.2	.1	.4	.3	.2	.1	.0	.0	2.0	
	NO PCP	.2	.6	.3	.2	.6	.7	.3	.1	.0	.3	3.2	
	TOT %	.2	1.3	.5	.3	.9	1.0	.5	.2	.0	.3	5.2	
1<2	PCP	.8	.2	.3	.0	.1	.1	.0	.1	.0	.2	1.7	
	NO PCP	.3	.3	.2	.1	.5	.2	.0	.0	.0	.1	1.7	
	TOT %	1.1	.5	.5	.1	.6	.3	.0	.1	.0	.3	3.5	
2<5	PCP	.7	.7	1.0	.1	.5	.1	.0	.2	.0	.2	3.5	
	NO PCP	.4	.9	.3	.2	.5	1.2	.2	.2	.0	.1	3.9	
	TOT %	1.0	1.6	1.2	.3	1.0	1.2	.2	.4	.0	.3	7.3	
5<10	PCP	.8	1.3	.8	.4	.8	.8	.4	.4	.0	.0	5.6	
	NO PCP	3.5	3.3	1.7	1.3	3.6	5.9	3.7	1.7	.0	.6	25.4	
	TOT %	4.3	4.6	2.5	1.7	4.4	6.7	4.1	2.0	.0	.6	31.0	
10+	PCP	.2	.3	.2	.2	.0	.2	.1	.1	.0	.0	1.2	
	NO PCP	4.3	5.4	1.4	1.6	5.8	10.9	5.2	3.7	.0	2.2	40.4	
	TOT %	4.5	5.6	1.5	1.8	5.8	11.1	5.3	3.8	.0	2.2	41.6	
TOT OBS													
TOT PCT													
		12.1	15.5	6.7	5.3	15.0	23.1	11.2	6.8	.0	4.3	100.0	981

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.2	.1	.2	.1	.2	.0	.0	.0	.5	1.3	
	4-10	.5	.9	.1	.7	1.7	1.0	.5	.1	.0	.0	5.6	
	11-21	.4	.6	.2	.2	.3	1.2	.6	.2	.0	.0	3.7	
	22+	.1	.2	.0	.0	.1	.4	.2	.0	.0	.0	1.0	
	TOT %	.9	1.9	.4	1.1	2.2	2.8	1.3	.3	.0	.5	11.6	
1/2<1	0-3	.0	.1	.1	.0	.1	.1	.0	.0	.0	.3	.7	
	4-10	.1	.5	.2	.3	.3	.2	.1	.1	.0	.0	2.0	
	11-21	.1	.4	.2	.0	.3	.3	.3	.1	.0	.0	1.8	
	22+	.0	.3	.0	.0	.2	.3	.0	.0	.0	.0	1.0	
	TOT %	.2	1.4	.6	.3	1.0	1.0	.4	.2	.0	.3	5.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.1	.1	.3	.0	.2	.0	.0	.0	.0	.0	1.7	
	11-21	.4	.3	.1	.0	.3	.3	.0	.0	.0	.0	1.4	
	22+	.5	.1	.1	.0	.2	.0	.1	.0	.0	.0	1.1	
	TOT %	1.0	.4	.5	.0	.7	.3	.0	.1	.0	.3	3.5	
2<5	0-3	.0	.0	.1	.0	.1	.0	.1	.0	.0	.3	.7	
	4-10	.4	.6	.7	.1	.6	.4	.0	.0	.0	.0	2.9	
	11-21	.4	.9	.3	.1	.4	.6	.0	.2	.0	.0	3.0	
	22+	.2	.1	.2	.0	.0	.1	.0	.1	.0	.0	.8	
	TOT %	1.0	1.6	1.3	.3	1.1	1.2	.2	.4	.0	.3	7.4	
5<10	0-3	.5	.2	.1	.0	.2	.2	.1	.0	.0	.6	2.3	
	4-10	1.6	1.0	.8	1.1	2.3	1.5	1.5	.6	.0	.0	10.5	
	11-21	1.5	2.4	1.2	.4	1.7	3.7	1.7	.8	.0	.0	12.5	
	22+	.5	.9	.5	.1	.1	1.2	.6	.4	.0	.0	4.3	
	TOT %	4.2	4.6	2.6	1.7	4.3	6.6	4.0	2.0	.0	.6	30.5	
10+	0-3	.5	.4	.1	.2	.3	.6	.4	.2	.0	2.3	5.1	
	4-10	1.9	3.5	.9	1.0	2.3	3.9	2.6	1.6	.0	.0	17.7	
	11-21	2.0	1.4	.4	.4	2.7	4.3	1.8	1.4	.0	.0	14.5	
	22+	.1	.4	.1	.0	.3	2.2	.6	.3	.0	.0	4.3	
	TOT %	4.6	5.8	1.5	1.7	5.7	11.0	5.3	3.7	.0	2.3	41.6	
TOT OBS													
TOT PCT													
		12.0	15.7	7.0	5.2	15.0	22.9	11.3	6.7	.0	4.3	100.0	1003

JUNE

PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1869-1971AREA 0001 BELLE ISLE STRAIT
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	11.2	2.2	5.1	9.0	11.2	10.7	3.4	1.7	1.7	2.2	58.4	41.6	178
06009	20.6	1.8	2.9	7.6	15.3	5.3	4.7	.6	.6	5.9	65.3	34.7	170
12015	11.4	2.1	3.6	5.2	19.2	7.8	2.6	2.1	3.1	1.6	58.5	41.5	193
18021	8.7	3.6	2.6	7.2	16.9	6.2	2.1	2.1	.5	1.5	53.3	46.7	195
TOT	94	18	26	53	116	59	23	12	11	20	432	304	736
PCT	12.8	2.4	3.5	7.2	15.8	8.0	3.1	1.6	1.5	2.7	58.7	41.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	10.8	7.9	4.0	6.5	35.4	35.4	277
06009	15.2	2.6	3.9	7.0	28.3	43.0	230
12015	12.2	5.8	4.4	6.1	29.2	42.4	295
18021	9.0	4.3	1.2	9.0	31.3	45.3	256
TOT	124	56	36	75	329	438	1058
PCT	11.7	5.3	3.6	7.1	31.1	41.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	11.5	23.6	35.1	25.9	39.1	174
06009	21.6	26.3	38.3	28.1	33.5	167
12015	12.0	19.4	30.4	29.3	40.3	191
18021	8.9	17.7	30.7	27.6	41.7	192
TOT	96	156	242	201	281	724
PCT	13.3	21.5	33.4	27.8	38.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.2	.0	.2	.3	.2	.2	6	.9
55/59	.0	.0	.0	.2	.6	1.6	1.3	.5	26	4.1
50/54	.0	.0	.0	.5	1.3	3.8	6.7	4.4	106	16.6
45/49	.0	.0	.2	.3	2.0	4.7	10.0	16.7	217	34.0
40/44	.0	.0	.0	.2	.8	3.9	8.6	20.2	215	33.6
35/39	.0	.0	.0	.0	.0	.6	2.5	7.4	67	10.5
30/34	.0	.0	.0	.0	.0	.0	.2	.2	2	.3
TOTAL	0	0	2	7	31	95	188	316	639	100.0
PCT	.0	.0	.3	1.1	4.9	14.9	29.4	49.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.1	.8	.0	.0	.0	.0
.7	.2	.0	.2	.6	1.5	.5	.2	.0	.2
.9	1.7	1.2	.8	3.9	4.4	2.1	.9	.0	.8
1.9	4.0	2.6	2.0	6.2	10.5	3.6	1.5	.0	1.7
5.5	5.6	3.0	1.9	3.8	5.8	3.7	3.2	.0	1.1
2.9	3.1	.8	.5	.3	.7	.6	1.3	.0	.3
.2	.2	.0	.0	.0	.0	.0	.0	.0	.0
12.0	14.7	7.6	5.4	14.9	23.7	10.5	7.0	.0	4.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	62	57	55	45	38	36	35	45.8	292
06009	66	55	52	44	37	34	33	44.3	234
12015	64	61	55	45	38	36	34	45.9	307
18021	68	64	58	48	39	37	34	48.1	262
TOT	68	61	56	46	38	36	33	46.1	1095

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.2	5.9	13.5	29.4	50.0	88	170		
06009	.0	.6	1.3	10.8	29.1	58.2	90	158		
12015	.0	1.7	5.1	15.4	26.3	51.4	87	175		
18021	.0	2.5	8.1	19.3	31.7	38.5	85	161		
TOT	0	10	34	98	193	329	88	664		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WD FOG
>30	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.2	.1	.1	4	.0	.4
20/22	.0	.0	.0	.0	.0	.4	.4	.2	.0	10	.0	1.1
17/19	.0	.0	.0	.0	.4	.8	.2	.2	.1	16	.0	1.8
14/16	.0	.0	.0	.3	1.1	1.0	.4	.0	.0	26	.4	2.4
11/13	.0	.0	.1	1.4	1.7	1.1	.7	.1	.0	46	.6	4.5
9/10	.0	.0	1.0	1.7	1.4	1.3	.9	.1	.0	58	.9	5.5
7/8	.0	.1	2.0	3.4	3.2	.8	.1	.0	.0	87	1.7	7.9
6	.0	.3	1.4	1.7	1.2	.7	.1	.0	.0	45	1.0	4.0
5	.2	.8	2.5	2.0	2.2	.3	.0	.0	.0	73	1.8	6.3
4	.0	1.4	2.6	2.4	3.0	.7	.0	.0	.0	92	2.6	7.5
3	.1	2.2	4.4	3.2	2.0	.3	.0	.0	.0	111	2.5	9.7
2	.2	2.6	3.2	3.0	1.2	.4	.0	.0	.0	98	2.4	8.4
1	.0	1.5	3.3	3.2	1.0	.7	.0	.0	.0	84	1.3	7.7
0	.3	1.0	2.4	2.5	1.2	.0	.0	.0	.0	68	.9	6.6
-1	.1	1.5	1.5	.8	.1	.1	.0	.0	.0	38	.4	3.7
-2	.3	.3	.3	.6	.1	.0	.0	.0	.0	15	.4	1.2
-3	.1	.9	1.1	.0	.0	.0	.0	.0	.0	19	.6	1.5
-4	.0	.3	.1	.1	.0	.0	.0	.0	.0	5	.1	.4
-5	.0	.1	.1	.0	.0	.0	.0	.0	.0	2	.0	.2
-6	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-7/-8	.0	.4	.0	.0	.0	.0	.0	.0	.0	4	.0	.4
-9/-10	.0	.2	.0	.1	.0	.0	.0	.0	.0	3	.0	.3
-11/-12	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	13	127	238	240	180	71	28	7	4	908	162	746
PCT	1.4	14.0	26.2	26.4	19.8	7.8	3.1	.8	.4	100.0	17.8	82.2

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.4	.0	.0	.0	.0	2.7	.5	1.1	.4	.0	.0	.0	2.0
1-2	.9	1.2	.9	.0	.0	.0	2.9	.0	2.7	1.5	.0	.0	.0	4.2
3-4	.0	.0	2.8	.0	.0	.0	2.8	.0	1.0	4.2	.0	.0	.0	5.2
5-6	.0	.0	.4	.4	.0	.0	.9	.0	1.7	3.0	.0	.0	.0	4.7
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.4	.6	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	3.6	4.1	1.2	.0	.0	10.0	.5	6.5	9.6	.6	.4	.0	17.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.8	.0	.0	.0	1.5	.0	.6	.1	.0	.0	.0	.8
1-2	.0	.9	.6	.0	.0	.0	1.5	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.8	.8	.0	.0	.0	1.5	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.4	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.6	.0	.0	.6	.0	.0	.4	.1	.0	.0	.5
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	2.6	.6	.0	.0	6.0	.0	1.7	1.1	.1	.0	.0	2.9

PERIOD: (OVER-ALL) 1963-1971

JUNE

AREA 0001 BELLE ISLE STRAIT
50.9N 57.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.5	.8	.0	.0	.0	3.2	.9	4.1	.5	.0	.0	.0	5.5
1-2	.0	3.4	1.7	.0	.0	.0	5.2	.4	3.4	3.0	.0	.0	.0	6.9
3-4	.0	.3	.8	.4	.0	.0	1.5	.0	1.7	9.1	1.0	.0	.0	11.7
5-6	.0	.4	1.3	.0	.0	.0	1.7	.0	.0	1.8	1.3	.0	.0	3.1
7	.0	.0	.6	.6	.0	.0	1.3	.0	.0	1.6	1.1	.0	.0	2.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.9	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.7	5.2	1.1	.0	.0	12.9	1.3	9.3	16.1	4.6	1.0	.0	32.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	1.3	.4	.0	.0	.0	1.7	
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	.4	.0	.0	.0	.4	
3-4	.0	.4	1.5	1.1	.0	.0	3.0	.0	.0	1.3	.1	.0	.0	1.6	
5-6	.0	.4	1.1	.0	.0	.0	1.5	.0	.0	.5	.9	.0	.0	1.4	
7	.0	.0	.3	.8	.0	.0	1.1	.0	.0	.0	1.0	.0	.0	1.0	
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.1	2.9	2.3	.3	.0	8.6	.0	1.3	2.9	1.9	.0	.0	6.1	96.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	7.4	14.0	2.9	.0	.0	.0	24.3	
1-2	1.6	13.6	7.8	.0	.0	.0	23.0	
3-4	.0	4.5	19.8	2.5	.0	.0	26.7	
5-6	.0	2.9	8.2	2.5	.0	.0	13.6	
7	.0	.0	3.3	4.9	.0	.0	8.2	
8-9	.0	.0	.4	.8	.0	.0	2.1	
10-11	.0	.0	.0	1.2	.0	.0	1.2	
12	.0	.0	.0	.0	.8	.0	.8	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.1	35.0	42.4	11.9	1.6	.0	100.0	243

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.2	15.9	15.9	6.0	3.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	245	3
6-7	.4	.8	4.2	3.8	2.8	1.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	5
8-9	.2	.4	1.0	.4	.8	.4	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
10-11	.0	.2	.2	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
12-13	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
>13	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
INDEX	26.4	1.4	2.4	.8	.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	161	1
TOTAL	172	94	121	57	36	12	6	3	1	1	0	0	0	0	0	0	0	0	0	503	3
PCT	34.2	18.7	24.1	11.3	7.2	2.4	1.2	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1910-1971
(OVER-ALL) 1869-1971AREA 0001 BELL ISLE STRAIT
50.8N 57.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	
N	7.0	2.3	4.7	.0	.0	.0	.0	13.4	4.4	.0	12.9	.8	1.0	.0	67.5
NE	10.7	1.5	6.1	.0	.0	.0	.0	15.7	2.1	.6	20.4	.5	.4	.0	60.5
E	8.1	.0	4.2	.0	.0	.0	.0	11.3	.7	.4	24.3	.5	.0	.0	63.1
SE	11.9	1.7	6.9	.0	.0	.0	.0	18.7	.4	.2	26.0	.8	2.3	.0	51.8
S	8.3	.6	2.7	.0	.0	.0	.0	10.6	1.2	1.2	27.9	.5	4.2	.0	55.5
SW	3.8	1.4	2.1	.0	.0	.0	.0	7.2	1.4	.5	20.8	.9	4.1	.0	65.4
W	2.7	1.6	.7	.0	.0	.0	.0	5.0	.8	.0	19.6	.0	1.6	.0	72.9
NW	4.5	2.9	1.0	.0	.0	.0	.0	8.6	2.4	.0	8.3	.2	.5	.0	80.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.7	.0	.0	.0	.0	.0	.0	4.7	2.3	.0	46.5	.0	.0	.0	46.5
TOT PCT	6.4	1.3	3.1	.0	.0	.0	.0	9.9	1.5	.5	22.0	.6	2.6	.0	63.2
TOT OBS:	2065														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	
0000	6.7	2.0	3.0	.0	.0	.0	.0	10.6	1.7	.8	21.3	.6	2.7	.0	62.8
0600	7.7	.7	3.6	.0	.0	.0	.0	11.2	1.2	.7	22.0	.5	1.9	.0	62.7
1200	6.4	1.3	2.4	.0	.0	.0	.0	9.3	1.0	.3	28.4	.4	2.4	.0	58.4
1800	5.2	1.4	2.7	.0	.0	.0	.0	8.4	1.4	.4	20.1	.5	3.0	.0	66.3
TOT PCT	6.4	1.4	2.8	.0	.0	.0	.0	9.8	1.4	.5	23.2	.5	2.5	.0	62.3
TOT OBS:	2294														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	2.2	1.5	.5	*	.0		4.7	11.2	4.5	3.2	5.2	9.3	5.5	4.5	3.5	3.2	
NE	1.2	5.2	4.5	1.0	.0	.0		11.9	11.7	10.1	15.0	10.6	15.9	13.6	10.8	11.8	9.3	
E	1.3	2.3	1.8	.3	.0	.0		6.7	8.7	7.6	9.6	6.5	4.2	5.8	6.4	6.1	7.3	
SE	.6	2.9	1.9	.3	*	.0		5.9	9.8	6.4	5.2	4.1	5.8	5.9	7.8	7.3	3.5	
S	1.3	7.2	8.4	1.6	.0	.0		18.5	12.3	18.0	15.8	20.3	15.9	16.9	14.8	23.7	19.7	
SW	1.9	11.6	16.7	4.6	.2	.0		34.6	13.5	37.1	26.8	34.2	27.6	34.0	39.3	34.1	38.9	
W	.9	3.9	4.5	.8	.1	.0		10.2	12.0	11.1	13.8	10.6	11.0	9.6	10.0	7.0	11.2	
NW	.6	2.4	1.6	.4	*	.0		5.0	10.6	3.6	5.9	4.2	5.7	6.5	5.1	5.1	4.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.5							2.5	.0	1.8	4.5	4.3	4.5	2.1	1.5	1.5	2.0	
TOT OBS	240	861	901	209	9	0	2220		11.8	456	177	255	154	437	200	340	201	
TOT PCT	10.8	38.8	40.6	9.4	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12
N	1.6	2.0	1.0	.1	.0	4.7	11.2	4.5	3.2	5.2	9.3	5.5
NE	3.1	5.8	2.6	.4	.0	11.9	11.7	10.1	15.0	10.6	15.9	13.6
E	3.1	2.8	.8	*	.0	6.7	8.7	7.6	9.6	6.5	4.2	5.8
SE	2.6	2.6	.5	.2	.0	5.9	9.8	6.4	5.2	4.1	5.8	5.9
S	4.0	9.4	4.7	.4	.0	18.5	12.3	18.0	15.8	20.3	15.9	16.9
SW	6.0	17.3	10.2	1.0	.0	34.6	13.5	37.1	26.8	34.2	27.6	34.0
W	2.0	6.0	1.9	.3	.0	10.2	12.0	11.1	13.8	10.6	11.0	9.6
NW	1.7	2.3	.9	.1	.0	5.0	10.6	3.6	5.9	4.2	5.7	6.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5					2.5	.0	1.8	4.5	4.3	4.5	2.1
TOT OBS	589	1072	501	58	0	2220		456	177	255	154	437
TOT PCT	26.5	48.3	22.6	2.6	.0	100.0		100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1910-1971
(COVER-ALL) 1869-1971

JULY

AREA 0001 BELLE ISLE STRAIT
50.8N 57.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.5	9.8	38.2	39.8	9.5	.2	.0	11.3	100.0	633
06009	4.4	9.0	42.1	37.4	6.4	.7	.0	10.8	100.0	409
12015	1.9	8.9	38.3	41.6	8.8	.5	.0	11.8	100.0	637
18021	1.7	5.4	37.5	42.7	12.4	.4	.0	13.0	100.0	541
TOT	55	185	861	901	209	9	0	11.8		2220
PCT	2.5	8.3	38.8	40.6	9.4	.4	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.6	1.1	2.5		5.6
NE	1.7	.9	2.2	6.2		6.7
E	.3	1.0	1.4	2.7		6.4
SE	.2	.6	1.2	3.7		6.9
S	5.3	2.9	2.7	10.5		5.4
SW	11.0	6.6	8.5	10.3		4.6
W	2.7	1.4	2.2	1.9		4.5
NW	1.0	.8	1.2	1.6		5.1
VAR	.0	.0	.0	.0		.0
CALM	.2	.2	.2	1.3		6.3
TOT OBS	282	180	249	491	1202	5.3
TOT PCT	23.5	15.0	20.7	40.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 499	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/R ANY HGT	TOTAL OBS
N	.2	.7	.0	.5	.9	.7	.2	.2	.1	.1	2.2	
NE	1.3	.3	.4	1.7	1.4	1.0	.2	.3	.2	.3	3.8	
E	.6	*	.3	.6	1.1	.5	.4	*	.0	.1	1.7	
SE	1.3	.1	.2	.4	.7	.3	.3	.2	.1	.2	1.9	
S	3.7	.1	.6	2.1	1.6	1.9	.1	.1	.3	.7	10.8	
SW	3.2	.3	.7	1.7	3.2	1.4	1.0	.2	.7	.9	22.4	
W	.5	.0	.1	.6	.5	.8	.3	.1	*	.1	5.2	
NW	.0	.1	.2	.6	.3	.6	.2	.0	.0	.0	2.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7	.0	.1	.1	.1	.3	.0	.0	.0	.0	.6	
TOT OBS	140	13	31	100	119	96	33	13	18	23	616	1202
TOT PCT	11.6	1.1	2.6	8.3	9.9	8.0	2.7	1.1	1.5	1.9	51.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4
= OR >5000	3.0	4.2	4.4	4.4	4.4	4.5	4.5	4.5
= OR >3500	4.5	6.6	7.3	7.3	7.3	7.4	7.4	7.4
= OR >2000	7.9	12.7	14.7	15.0	15.0	15.1	15.1	15.1
= OR >1000	11.8	20.4	23.7	24.3	24.7	24.8	25.0	25.0
= OR >600	14.2	26.1	30.8	31.7	32.4	32.9	33.3	33.3
= OR >300	15.0	27.6	32.8	33.9	34.6	35.2	35.9	35.9
= OR >150	15.1	28.0	33.2	34.5	35.3	35.9	36.8	36.8
= OR >0	15.2	28.3	33.9	35.7	37.3	40.0	45.4	48.7
TOTAL	186	347	415	437	457	489	556	596

TOTAL NUMBER OF OBS: 1224

PCT FREQ NH <5/8: 51.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	15.3	13.2	8.8	7.8	5.1	3.8	6.4	5.5	25.2	9.0	1303

JULY

PERIOD: (PRIMARY) 1910-1971
(OVER-ALL) 1869-1971AREA 0001 BELLE ISLE STRAIT
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.1	.1	.1	.2	.5	*	*	.0	.0	1.2	
	NO PCP	.2	1.5	1.0	1.0	3.3	4.7	1.3	.4	.0	.9	14.3	
	TOT %	.3	1.6	1.1	1.1	3.5	5.2	1.3	.4	.0	.9	15.5	
1/2<1	PCP	.1	.1	.1	.1	.2	.7	*	*	.0	.0	.9	
	NO PCP	.2	.4	.3	.2	.5	1.4	.7	*	.0	*	3.8	
	TOT %	.3	.6	.3	.3	.7	1.7	.8	*	.0	*	4.7	
1<2	PCP	*	.1	*	*	.1	.4	.1	.0	.0	.0	.8	
	NO PCP	.1	.2	.2	*	.4	.6	.1	*	.0	.0	1.6	
	TOT %	.1	.3	.2	.1	.4	.9	.3	*	.0	.0	2.4	
2<5	PCP	.1	.2	*	.2	.6	.7	.0	.0	.0	.0	1.5	
	NO PCP	.2	.3	.2	.2	1.1	1.9	.4	*	.0	.0	4.4	
	TOT %	.4	.5	.3	.4	1.7	2.7	.4	*	.0	.0	5.9	
5<10	PCP	.3	1.1	.5	.5	.8	.8	.3	.4	.0	*	4.7	
	NO PCP	1.5	4.0	2.4	1.8	5.2	8.4	2.7	1.8	.0	.5	28.8	
	TOT %	1.8	5.0	3.0	2.3	6.0	9.2	3.0	2.2	.0	.6	33.5	
10+	PCP	*	.2	*	.2	.1	.2	.0	*	.0	*	.8	
	NO PCP	1.9	3.8	2.0	1.5	6.2	14.6	4.5	2.3	.0	.5	37.3	
	TOT %	1.9	4.0	2.0	1.7	6.3	14.8	4.5	2.3	.0	.5	38.1	
TOT OBS													
TOT PCT													
		4.7	12.0	6.9	5.8	18.7	34.5	10.3	5.0	.0	2.1	100.0	2066

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.2	.4	.2	.3	.5	.3	.1	.0	.9	3.0	
	4-10	.2	.7	.5	.7	1.2	2.5	.6	.2	.0		6.5	
	11-21	*	.6	.1	.2	1.7	1.7	.3	.1	.0		4.8	
	22+	.0	.0	*	.1	.2	.5	.1	.0	.0		.9	
	TOT %	.3	1.5	1.1	1.1	3.4	5.2	1.3	.4	.0	.9	15.3	
1/2<1	0-3	*	.2	.2	*	*	*	*	.0	.0	*	.7	
	4-10	.1	.2	.1	.2	.3	.9	.2	*	.0		2.0	
	11-21	*	*	*	*	.2	.6	.5	.0	.0		1.5	
	22+	.1	.1	*	*	*	.1	.0	*	.0		.4	
	TOT %	.2	.6	.3	.3	.7	1.6	.7	*	.0	*	4.5	
1<2	0-3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	*	.1	.1	.2	.3	.2	*	.0		.8	
	11-21	*	.1	*	.1	.3	.4	*	.0	.0		1.0	
	22+	.0	.1	*	.0	*	.2	.0	.0	.0		.4	
	TOT %	.2	.3	.2	.2	.4	.9	.2	*	.0	.0	2.4	
2<5	0-3	.0	*	.0	*	.1	.0	.0	.0	.0	*	.2	
	4-10	.2	.2	.2	.1	.5	.5	.2	*	.0		1.9	
	11-21	.1	.2	*	.1	.8	1.2	.2	*	.0		2.8	
	22+	.1	*	*	.1	.2	.5	.0	*	.0		1.0	
	TOT %	.4	.5	.2	.4	1.6	2.3	.4	*	.0	*	5.9	
5<10	0-3	.1	.4	.4	.3	.5	.3	.3	.3	.0	.7	3.3	
	4-10	.8	2.3	1.3	1.0	2.3	3.1	1.0	1.0	.0		12.9	
	11-21	.6	1.8	1.1	.9	2.8	5.1	1.6	.7	.0		14.5	
	22+	.1	.6	.1	.1	.3	1.2	.2	.2	.0		2.8	
	TOT %	1.7	5.0	2.9	2.3	5.9	9.8	3.1	2.1	.0	.7	33.4	
10+	0-3	.1	.3	.2	.1	.4	1.0	.3	.2	.0	.7	3.2	
	4-10	.9	1.8	1.2	1.0	2.6	4.1	1.7	1.1	.0		14.4	
	11-21	.7	1.8	.5	.5	2.5	7.6	2.0	.9	.0		16.5	
	22+	.2	.2	*	*	.9	2.2	.6	.2	.0		4.4	
	TOT %	1.9	4.2	2.0	1.6	6.3	14.8	4.6	2.4	.0	.7	38.5	
TOT OBS													
TOT PCT													
		4.7	12.1	6.7	5.8	18.4	34.6	10.3	5.0	.0	2.4	100.0	2143

JULY

PERIOD: (PRIMARY) 1910-1971
(OVER-ALL) 1869-1971AREA 0001 BELL ISLE STRAIT
50.8N 57.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	11.9	.6	2.2	5.8	10.3	8.3	3.8	1.3	1.0	1.9	47.1	52.9	312
06009	13.7	.8	3.7	10.0	9.1	5.0	2.9	.8	2.1	1.2	49.4	50.6	241
12015	12.0	.9	2.4	11.1	10.2	7.2	2.7	.6	.6	2.4	50.0	50.0	334
18021	9.5	1.6	1.9	6.3	9.3	9.8	1.9	1.4	2.5	1.6	45.8	54.2	367
TOT	145	13	31	102	122	98	35	13	19	23	601	653	1254
PCT	11.6	1.0	2.5	8.1	9.7	7.8	2.8	1.0	1.5	1.8	47.9	52.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	15.2	5.3	2.3	5.7	39.2	32.4	666
06009	16.4	5.8	1.4	4.2	28.4	43.9	433
12015	19.9	5.6	3.3	5.9	31.7	33.7	700
18021	13.5	4.0	2.2	7.8	31.4	41.1	579
TOT	389	122	57	142	788	880	2378
PCT	16.4	5.1	2.4	6.0	33.1	37.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	12.4	17.3	29.3	21.8	48.9	307
06009	14.2	19.7	31.8	21.5	46.8	233
12015	12.5	20.4	35.6	19.1	45.3	329
18021	10.1	16.1	30.4	19.7	49.9	355
TOT	148	223	389	250	585	1224
PCT	12.1	18.2	31.8	20.4	47.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.1	.1	.0	.0	.0	.0	3	.2
70/74	.0	.0	.0	.1	.1	.1	.0	.0	5	.4
65/69	.0	.0	.0	.1	.2	.5	.4	.8	27	1.9
60/64	.0	.0	.0	.1	.5	2.3	3.5	2.7	125	9.0
55/59	.0	.0	.0	.1	.5	4.4	13.8	13.8	491	32.5
50/54	.0	.0	.1	.1	.9	2.7	11.9	16.5	446	32.2
45/49	.0	.0	.0	.1	.3	1.4	4.9	11.3	250	18.0
40/44	.0	.0	.0	.0	.0	.4	1.1	4.0	77	5.6
35/39	.0	.0	.0	.0	.0	.0	.0	.2	3	.2
TOTAL	0	0	2	8	35	166	492	684	1387	100.0
PCT	.0	.0	.1	.6	2.5	12.0	35.5	49.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.0	.1	.0	.0	.0	.0
.1	.0	.0	.0	.0	.3	.0	.0	.0	.0
.0	.1	.1	.4	1.0	.2	.8	.0	.0	.0
.1	.3	.3	.6	3.1	3.6	.7	.2	.0	.1
1.1	2.6	1.7	2.0	7.7	13.3	2.5	.9	.0	.7
.9	3.0	2.0	2.2	5.0	12.8	3.6	1.6	.0	1.2
1.5	3.0	1.4	1.0	3.3	4.2	1.8	1.5	.0	.3
.8	1.0	.6	.3	.5	1.0	.6	.5	.0	.4
.0	.1	.0	.0	.0	.0	.1	.0	.0	.1
4.5	10.1	6.1	6.1	20.0	36.2	9.4	4.7	.0	2.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	74	63	59	52	43	40	38	51.8	688
06009	69	63	58	51	42	39	37	50.9	448
12015	75	65	62	53	43	41	35	52.7	718
18021	78	68	64	55	45	42	36	54.9	587
TOT	78	66	62	53	43	40	35	52.6	2441

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.8	1.3	9.2	34.2	54.6	90	392
06009	.0	.0	.0	6.7	29.5	63.9	92	285
12015	.0	.5	2.5	13.4	36.8	46.9	88	397
18021	.0	1.3	5.4	16.3	40.1	37.0	86	387
TOT	0	10	36	171	519	725	89	1461

JULY

PERIOD: (PRIMARY) 1910-1971
(OVER-ALL) 1869-1971

TABLE 17

AREA 0001 BELLE ISLE STRAIT
50.8N 57.1WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	43 48	49 52	53 56	57 60	61 64	63 68	69 72	73 76	77 80	TOT W FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	5	.2
23/25	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	7	.3
20/22	.0	.0	.0	.0	.3	.4	.0	.0	.1	.0	.0	21	1.0
17/19	.0	.0	.0	.2	.2	.4	.1	.0	.0	.0	.0	21	.7
14/16	.0	.0	.1	.4	.6	.6	.2	.2	.1	.0	.0	48	1.8
11/13	.0	.0	.2	.5	1.6	.5	.7	.5	.0	.0	.0	85	2.8
9/10	.0	.0	.4	1.4	1.5	1.0	.7	.2	.1	.0	.0	111	4.4
7/8	.0	.2	1.1	3.0	2.6	2.0	1.0	.1	.0	.0	.0	204	7.5
6	.0	.2	.4	1.3	1.8	1.1	.5	.0	.0	.0	.0	113	4.3
5	.0	.6	1.5	2.6	2.2	2.1	.5	.0	.0	.0	.0	192	7.4
4	.0	.3	1.9	2.9	3.0	2.0	.3	.0	.0	.0	.0	210	8.4
3	.1	.4	1.5	3.7	3.9	2.5	.3	.0	.0	.0	.0	293	10.2
2	.0	1.0	1.7	2.9	3.2	1.7	.4	.0	.0	.0	.0	222	9.0
1	.1	.6	2.6	2.8	3.4	1.5	.0	.0	.0	.0	.0	224	7.9
0	.0	.7	1.3	1.9	2.2	.5	.0	.0	.0	.0	.0	136	4.8
-1	.0	.4	.8	1.0	1.1	.0	.0	.0	.0	.0	.0	69	2.7
-2	.1	.4	.2	.6	.3	.0	.0	.0	.0	.0	.0	36	1.3
-3	.2	.1	.1	.5	.2	.1	.0	.0	.0	.0	.0	27	1.1
-4	.0	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	18	.6
-5	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	10	.4
-6	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	5	.2
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
-9/-10	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	5	.2
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
TOTAL	20	116	296	534	569	341	113	24	8	2	2	2025	1562
PCT	1.0	5.7	14.6	26.4	28.1	16.8	9.6	1.2	.4	.1	.1	100.0	77.1

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.9	.0	.0	.0	.0	1.1	.3	1.2	.2	.0	.0	.0	1.7
1-2	.0	.9	.6	.0	.0	.0	1.4	.7	2.5	1.6	.0	.0	.0	4.3
3-4	.0	.1	.3	.2	.0	.0	.6	.0	1.1	2.6	.2	.0	.0	4.0
5-6	.0	.2	.5	.3	.0	.0	1.0	.0	.2	.9	.3	.0	.0	1.4
7	.0	.0	.7	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.0	1.6	.5	.0	.0	4.3	.5	5.1	5.6	.7	.0	.0	11.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.8	.3	.0	.0	.0	1.4	.3	.6	.0	.0	.0	.0	.9
1-2	.0	2.0	.6	.0	.0	.0	2.6	.0	1.4	.4	.0	.0	.0	1.8
3-4	.0	.4	.8	.3	.0	.0	1.5	.0	.4	1.1	.2	.0	.0	1.7
5-6	.0	.1	.2	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.1
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.4	1.8	.5	.0	.0	5.9	.3	2.5	1.6	.2	.0	.0	4.5

PERIOD: (OVER-ALL) 1963-1971

JULY

AREA 0001 BELLE ISLE STRAIT
90.8N 57.1W

TABLE 18 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.0	.3	.0	.0	.0	3.1	1.7	2.5	.6	.0	.0	.0	4.7
1-2	.0	2.9	2.9	.0	.0	.0	5.8	.0	4.5	5.0	.0	.0	.0	9.6
3-4	.0	.8	5.1	.9	.0	.0	6.8	.0	2.2	7.3	2.2	.0	.0	11.9
5-6	.0	.5	1.7	.6	.0	.0	2.8	.0	.9	5.0	2.5	.0	.0	8.3
7	.0	.0	.4	.3	.0	.0	.7	.0	.0	1.7	1.8	.0	.0	3.4
8-9	.0	.0	.1	.1	.0	.0	.3	.0	.0	.6	.4	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.2	10.6	2.0	.0	.0	19.5	1.9	10.0	20.3	7.2	.2	.0	39.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.3	.3	.0	.0	.0	1.7	.0	.4	.0	.0	.0	.0	.5	
1-2	.0	1.0	.7	.0	.0	.0	1.7	.0	.7	.3	.0	.0	.0	1.0	
3-4	.2	.7	1.2	.6	.0	.0	2.7	.0	.4	.4	.0	.0	.0	.8	
5-6	.0	.1	1.4	.0	.0	.0	1.5	.0	.0	.4	.6	.0	.0	.9	
7	.0	.0	.4	.3	.0	.0	.7	.0	.0	.0	.2	.0	.0	.2	
8-9	.0	.0	.0	.2	.2	.0	.3	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.2	4.0	1.1	.2	.0	8.8	.0	1.5	1.2	.9	.0	.0	3.6	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.0	9.5	1.7	.0	.0	.0	18.2	
1-2	.7	15.5	11.9	.0	.0	.0	28.0	
3-4	.3	6.0	18.7	4.4	.0	.0	29.5	
5-6	.0	2.0	9.8	4.2	.0	.0	16.0	
7	.0	.0	3.0	2.7	.0	.0	5.7	
8-9	.2	.0	.7	.8	.2	.0	1.8	
10-11	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.2	33.1	45.7	12.7	.3	.0	100.0	599

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.5	19.0	25.6	9.4	2.3	1.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	565	3
6-7	.0	1.3	6.4	6.7	2.2	.8	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	161	4
8-9	.0	.0	.9	1.3	1.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	4
10-11	.0	.6	.4	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
12-13	.0	.0	1.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	4
>13	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
INDEX	5.5	2.6	2.2	.9	.4	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	2
TOTAL	98	210	330	167	60	22	2	5	2	1	0	0	0	0	0	0	0	0	0	847	3
PCT	10.9	23.4	36.8	18.6	6.7	2.5	.2	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1897-1970
(OVER-ALL) 1869-1970

AUGUST

AREA 0001 BELLE ISLE STRAIT
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WFA
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	
N	7.4	3.1	6.1	.0	.0	.0	1.0	16.3	1.9	.5	11.3	.0	1.7	.0	68.8
NE	10.1	3.7	4.9	.0	.0	.0	.0	18.7	2.1	.0	9.1	.3	1.9	.0	67.9
E	13.5	6.1	9.7	.0	.0	.0	.0	29.2	1.7	.0	22.3	.5	.9	.0	45.4
SE	19.7	4.4	3.8	.0	.0	.0	.0	27.7	2.6	.8	16.3	.7	.5	.0	51.9
S	11.5	2.9	2.9	.0	.0	.0	.0	17.3	1.6	.9	15.5	.6	1.7	.0	62.6
SW	5.7	1.9	2.0	.0	.0	.0	.1	9.6	1.9	.8	14.3	.4	1.4	.0	71.9
W	2.2	1.8	2.0	.0	.0	.0	.3	6.4	.6	.3	12.7	.0	.9	.0	79.1
NW	5.1	1.7	3.5	.0	.0	.0	.6	10.6	2.3	.0	8.3	.0	.0	.6	78.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0	2.0	.0	.0	.0	.0	.0	6.0	.0	.0	30.0	2.0	6.0	.0	56.0
TOT PCT	8.3	2.9	3.7	.0	.0	.0	.2	14.9	1.7	.5	14.1	.4	1.4	.0	67.2
TOT OBS	2436														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WFA
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	
0000	8.2	3.6	2.5	.0	.0	.0	.4	14.6	1.4	.5	15.1	.1	1.3	.0	67.1
0600	10.4	3.0	3.6	.0	.0	.0	.0	16.5	3.2	1.4	13.3	.2	.4	.0	65.3
1200	7.1	2.9	4.6	.0	.0	.0	.1	14.4	.8	.3	17.7	.5	1.4	.1	65.1
1800	6.8	2.3	3.6	.0	.0	.0	.3	13.0	1.6	.2	14.4	.5	1.9	.0	68.5
TOT PCT	7.9	3.0	3.6	.0	.0	.0	.2	14.6	1.6	.5	15.4	.3	1.3	.0	66.5
TOT OBS	2629														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.2	3.3	2.7	.6	.2	*		8.1	11.7	7.8	5.0	7.0	10.7	9.9	7.6	8.0	6.7	
NE	1.0	5.3	4.2	1.2	.4	.0		11.9	12.6	11.0	10.8	11.4	10.5	13.0	10.8	14.4	11.8	
E	1.2	4.6	2.4	.5	.1	.0		8.8	10.0	8.0	10.8	9.6	8.9	9.2	12.4	6.7	13.3	
SE	.9	3.0	1.9	.3	.0	.0		6.2	9.6	6.2	5.4	6.4	4.6	6.3	8.5	4.3	8.0	
S	1.4	6.0	5.4	1.5	.1	.0		14.4	11.9	13.9	13.8	14.6	13.0	14.1	17.9	17.5	14.4	
SW	1.1	9.9	13.3	3.6	.2	.0		28.2	13.6	32.7	26.1	28.2	26.4	23.6	26.4	31.3	29.4	
W	.8	6.0	4.7	1.1	.1	.0		12.7	11.7	11.8	15.0	13.9	14.4	14.1	11.8	17.2	8.4	
NW	.9	3.3	2.6	.5	.1	.0		7.3	10.9	6.4	10.3	8.6	10.1	8.2	7.9	3.3	6.2	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.4							2.4	.0	2.1	2.8	4.3	1.4	2.6	1.7	2.3	1.7	
TOT OBS	281	1074	964	243	29	1	2592		11.8	518	217	280	221	349	236	345	231	
TOT PCT	10.8	41.4	37.2	9.4	1.1	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+	00 03				06 09	12 15	18 21	
N	2.4	3.7	1.5	.4	.1		8.1	11.7	7.0	8.6	9.2	7.5	
NE	3.0	5.7	2.4	.7	.1		11.9	12.6	11.0	11.0	12.4	13.4	
E	3.3	4.0	1.4	.1	.0		8.8	10.0	8.8	7.1	9.5	9.4	
SE	2.1	3.3	.6	.1	.0		6.2	9.6	6.0	5.6	6.9	5.8	
S	3.8	6.8	3.4	.3	.0		14.4	11.9	13.9	13.9	13.8	16.2	
SW	5.0	13.7	8.5	.9	.0		28.2	13.6	30.8	27.4	24.5	30.6	
W	3.4	6.3	2.6	.5	.0		12.7	11.7	12.7	14.1	13.4	10.7	
NW	2.2	3.8	1.1	.2	.0		7.3	10.9	7.5	9.2	8.1	4.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.4						2.4	.0	2.3	3.0	2.3	2.1	
TOT OBS	719	1228	556	85	4	2592		11.8	730	501	785	576	
TOT PCT	27.7	47.4	21.5	3.3	.2		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1897-1970
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+ MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.3	8.8	41.9	38.5	8.1	1.4	.0	11.3	100.0	730
06009	3.0	7.8	39.3	39.3	9.0	1.6	.0	11.8	100.0	501
12015	2.3	10.1	43.6	43.9	8.8	1.4	.0	11.4	100.0	785
18021	2.1	6.4	39.8	38.2	12.2	1.2	.2	12.6	100.0	576
TOT	62	219	1074	964	243	29	1	11.8		2592
PCT	2.4	8.4	41.4	37.2	9.4	1.1	*	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	.6	2.5	3.2		5.8
NE	1.5	.4	3.8	6.5		6.4
E	.7	.1	.8	3.7		6.7
SE	.7	.1	.9	4.0		6.7
S	2.9	2.0	4.0	6.2		5.5
SW	8.8	4.9	8.1	8.3		4.7
W	3.9	2.4	3.7	2.7		4.4
NW	2.4	.8	1.8	1.9		4.7
VAR	.0	.0	.0	.0		5.0
CALM	.9	.3	.8	1.3	1182	5.3
TOT OBS	276	146	313	447		
TOT PCT	23.4	12.4	26.5	37.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT; NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.2	.1	.6	.7	1.8	.7	.3	.1	.0	.1	3.4	
.4	.8	.8	1.5	3.0	1.4	.9	.1	.1	.0	4.1	
.3	.1	.5	.8	1.4	.5	.4	.0	.0	.0	1.6	
.6	.1	.3	.7	1.4	.5	.4	.0	.1	.1	1.8	
1.3	.0	.1	1.5	2.2	1.4	.6	.1	.1	.5	7.3	
1.4	.0	1.1	2.5	3.7	1.8	.8	.3	.4	.9	17.2	
.7	.0	.2	1.0	1.8	.6	.2	.0	.3	.1	9.0	
.3	.0	.3	.3	1.4	.5	.1	.0	.0	.2	3.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.8	.0	.2	.2	.5	.2	.0	.0	.2	.0	1.4	
.68	.4	.46	.06	.263	.96	.45	.7	.15	.21	575	1182
5.8	.3	3.9	9.1	17.2	7.6	3.8	.6	1.3	1.8	48.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.3	2.8	2.9	2.9	2.9	3.0	3.0	3.0
= OR >5000	2.6	3.3	3.5	3.5	3.5	3.6	3.6	3.6
= OR >3500	5.3	6.9	7.3	7.3	7.3	7.4	7.4	7.4
= OR >2000	10.0	13.8	14.5	14.6	14.8	14.9	14.9	14.9
= OR >1000	19.4	29.1	30.9	31.4	31.8	32.1	32.1	32.1
= OR >600	23.2	35.9	39.6	40.5	41.0	41.3	41.3	41.3
= OR >300	24.3	37.9	43.0	44.0	44.7	44.9	45.1	45.1
= OR >150	24.3	37.9	43.1	44.3	44.9	45.2	45.4	45.4
= OR >0	24.4	38.5	44.4	45.9	47.3	48.6	50.7	51.3
TOTAL	293	462	533	541	568	583	608	615

TOTAL NUMBER OF OBS: 1200

PCT FREQ NH <5/8: 48.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.2	13.5	10.2	7.0	6.1	4.9	7.5	8.4	26.5	5.0	1277

PERIOD: (PRIMARY) 1897-1970
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.4	.3	.2	.3	.2	.1	.0	.0	1.7	
	NO PCP	.5	.5	1.0	.5	1.1	1.4	.7	.2	.0	.4	6.7	
	TOT %	.6	.7	1.4	.8	1.3	2.1	.9	.3	.0	.4	8.4	
1/2<1	PCP	.3	.3	.7	.1	.3	.7	.1	.3	.0	.0	2.4	
	NO PCP	.3	.3	.7	.3	.6	1.3	.5	.5	.0	.1	4.6	
	TOT %	.6	.6	1.4	.5	.9	1.9	.6	.8	.0	.1	6.9	
1<2	PCP	.1	.1	.0	.1	.1	.1	.0	.0	.0	.0	.5	
	NO PCP	.0	.1	.2	.1	.2	.3	.1	.0	.0	.0	.9	
	TOT %	.1	.3	.2	.1	.2	.4	.1	.0	.0	.0	1.4	
2<3	PCP	.1	.4	.3	.3	.6	.5	.1	.1	.0	.0	2.4	
	NO PCP	.2	.3	.3	.2	.4	1.0	.4	.1	.0	.2	2.9	
	TOT %	.3	.7	.5	.5	1.0	1.4	.5	.2	.0	.2	5.3	
5<10	PCP	.6	1.2	1.0	.8	1.0	1.4	.3	.2	.0	.1	6.5	
	NO PCP	2.3	4.2	2.7	1.6	4.3	9.8	3.9	2.4	.0	.5	31.6	
	TOT %	2.9	5.3	3.7	2.4	5.3	11.2	4.3	2.6	.0	.5	38.2	
10+	PCP	.7	.1	.3	.2	.3	.7	.1	.1	.0	.0	1.4	
	NO PCP	3.5	4.4	1.5	1.8	5.3	11.3	6.2	3.6	.0	.8	38.3	
	TOT %	3.7	4.5	1.8	2.0	5.5	11.9	6.2	3.6	.0	.8	39.7	
TOT OBS													2433
TOT PCT													
		8.1	12.1	9.0	6.3	14.3	28.2	12.6	7.4	.0	2.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.3	.3	.3	.1	.1	.0	.0	.4	1.8	
	4-10	.2	.4	.9	.4	.4	1.0	.7	.2	.0	.0	4.3	
	11-21	.2	.2	.1	.1	.5	.8	.1	.0	.0	.0	2.1	
	22+	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.5	.7	1.3	.8	1.3	2.1	.9	.3	.0	.4	8.3	
1/2<1	0-3	.1	.0	.3	.1	.1	.1	.0	.1	.0	.1	.9	
	4-10	.2	.3	.7	.2	.2	.5	.3	.4	.0	.0	2.9	
	11-21	.2	.1	.3	.2	.4	.8	.1	.2	.0	.0	2.4	
	22+	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0	.6	
	TOT %	.6	.6	1.4	.4	.9	1.5	.5	.7	.0	.1	6.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.0	.1	.2	.1	.0	.0	.0	.0	.6	
	11-21	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.4	
	22+	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.4	
	TOT %	.1	.2	.2	.1	.3	.4	.1	.0	.0	.0	1.6	
2<3	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	
	4-10	.2	.3	.2	.1	.3	.4	.3	.1	.0	.0	2.0	
	11-21	.1	.2	.2	.3	.4	.9	.2	.0	.0	.0	2.3	
	22+	.1	.1	.1	.1	.2	.2	.1	.0	.0	.0	.9	
	TOT %	.3	.6	.5	.5	1.0	1.5	.6	.2	.0	.2	5.4	
5<10	0-3	.5	.4	.6	.4	.4	.6	.4	.5	.0	.5	4.3	
	4-10	1.2	2.1	1.8	1.0	2.3	3.1	1.6	1.0	.0	.0	14.1	
	11-21	.9	2.0	1.0	.9	2.1	5.8	1.8	.7	.0	.0	15.1	
	22+	.2	.7	.2	.1	.5	1.5	.4	.3	.0	.0	4.0	
	TOT %	2.9	5.2	3.6	2.4	5.3	11.0	4.2	2.5	.0	.5	37.6	
10+	0-3	.4	.3	.1	.2	.5	.2	.2	.3	.0	.8	3.1	
	4-10	1.4	2.2	1.1	1.3	2.5	4.7	3.1	1.6	.0	.0	18.0	
	11-21	1.4	1.6	.6	.5	2.0	5.1	2.6	1.5	.0	.0	15.3	
	22+	.4	.6	.1	.0	.5	1.5	.5	.3	.0	.0	4.0	
	TOT %	3.7	4.7	1.9	2.0	5.5	11.6	6.4	3.7	.0	.8	40.3	
TOT OBS													2504
TOT PCT													
		8.1	12.1	9.0	6.2	14.2	28.0	12.9	7.4	.0	2.1	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	6.0	.0	2.3	9.0	16.3	9.6	4.3	1.0	2.3	1.7	52.5	47.5	301
06009	6.9	.8	4.5	6.5	19.0	6.9	2.0	.4	1.2	1.2	49.4	50.6	247
12015	7.2	.3	3.7	9.2	17.5	6.3	4.3	.3	.9	1.4	51.1	48.9	348
18021	3.3	.3	4.8	10.4	14.6	6.8	3.9	.6	.6	2.4	47.6	52.4	336
TOT PCT	71 5.8	4 .3	47 3.8	110 8.9	206 16.7	91 7.4	46 3.7	7 .6	15 1.2	21 1.7	618 50.2	614 49.8	1232 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	10.0	7.7	.9	4.6	44.5	32.3	780
06009	8.6	6.0	1.9	4.3	35.0	44.2	314
12015	11.3	7.8	1.1	5.9	37.6	36.3	812
18021	8.3	5.9	2.5	5.2	32.6	45.4	592
TOT PCT	263 9.7	189 7.0	41 1.5	137 5.1	1025 38.0	1043 38.7	2698 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	6.1	9.9	22.9	32.4	44.7	293
06009	7.0	13.6	23.1	27.7	49.2	242
12015	7.1	12.1	26.0	28.7	45.3	338
18021	3.4	9.8	23.2	27.5	49.2	327
TOT PCT	70 5.8	135 11.3	287 23.9	349 29.1	564 47.0	1200 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.1	.2	.3	.1	.0	.0	9	.6
65/69	.0	.0	.1	.2	.3	1.2	1.5	1.0	61	4.3
60/64	.0	.1	.0	.2	.9	3.7	7.4	5.8	259	18.2
55/59	.0	.0	.0	.4	1.5	6.2	15.1	13.5	523	36.7
50/54	.0	.0	.1	.1	.9	3.8	10.6	11.9	389	27.3
45/49	.0	.0	.0	.0	.4	1.0	2.9	6.7	156	10.9
40/44	.0	.0	.0	.0	.0	.0	.3	1.8	29	2.0
TOTAL	0	1	3	16	60	227	540	579	1426	100.0
PCT	.0	.1	.2	1.1	4.2	15.9	37.9	40.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.1	.3	.2	.1	.0	.0
65/69	.0	.6	.0	.2	.8	1.7	.6	.2	.0	.2
60/64	.9	1.1	.5	.8	.3	8.2	2.3	.7	.0	.4
55/59	2.0	3.7	2.3	2.1	6.2	12.4	4.9	2.2	.0	.8
50/54	2.7	3.8	1.9	2.2	3.9	5.6	3.6	2.7	.0	.9
45/49	1.7	2.7	.8	.9	1.0	1.4	.9	1.0	.0	.5
40/44	.6	.3	.2	.1	.1	.1	.3	.2	.0	.0
TOTAL	7.9	12.1	5.7	6.4	15.5	29.6	12.3	7.1	.0	2.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	71	67	63	55	46	43	40	54.7	804
06009	70	64	62	54	45	42	39	53.8	532
12015	73	69	64	55	47	43	40	55.0	834
18021	74	71	66	57	47	44	42	56.8	598
TOT	74	68	64	55	46	43	39	55.1	2768

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.5	2.0	15.3	41.2	40.9	87	391
06009	.0	1.0	2.7	8.4	32.9	55.0	90	294
12015	.0	1.7	5.6	14.0	37.9	40.8	87	414
18021	.0	2.2	6.3	24.9	37.2	29.5	84	366
TOT	0	20	62	234	552	601	87	1469

PERIOD: (PRIMARY) 1897-1970
(OVER-ALL) 1869-1970

AUGUST

AREA 0001 BELLE ISLE STRAIT
50.8N 57.0W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WD FOG
23/25	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	1	*	.0
17/19	.0	.0	.0	.0	.1	.1	.1	.1	.1	*	11	.1	.3
14/16	.0	.0	.0	*	.3	.5	.5	.2	.2	.1	43	.3	1.5
11/13	.0	.0	*	.3	1.0	1.2	.5	.2	.1	*	81	1.0	2.4
9/10	.0	.0	.1	.7	1.0	1.2	.8	.5	.1	*	105	1.0	3.4
7/8	.0	.0	.3	1.4	2.0	1.4	.9	.5	.1	.0	158	1.4	5.2
6	.0	*	.2	1.1	1.3	1.3	1.0	.2	.0	.0	122	.8	4.3
5	.0	*	.5	1.7	2.5	1.4	1.0	.4	*	.0	179	1.3	6.2
4	.0	.2	.8	1.5	2.1	2.7	1.2	.4	*	.0	212	1.4	7.5
3	.0	.3	.8	1.7	2.2	3.2	1.1	.3	.0	.0	231	1.8	7.8
2	.0	.3	1.3	3.4	2.1	3.3	.7	.1	*	.0	266	1.7	9.4
1	.0	.4	1.1	2.2	3.0	2.6	1.0	.2	.0	.0	253	1.6	8.9
0	*	.3	1.5	1.8	3.1	2.9	.5	.1	.0	.0	249	1.0	9.4
-1	.0	.4	.4	1.7	2.3	1.6	.4	*	.0	.0	162	.9	5.8
-2	*	.1	.3	.7	1.6	1.0	.3	.0	.0	.0	97	.4	3.6
-3	.0	.1	.3	1.3	1.0	.5	.2	.0	.0	.0	81	.2	3.2
-4	*	.0	.3	.8	1.0	.3	.0	.0	.0	.0	55	*	2.3
-5	.0	*	.1	.3	.6	.1	.0	.0	.0	.0	30	.2	1.1
-6	.0	.0	.1	.6	.2	.0	*	.0	.0	.0	22	.1	.8
-7/-8	.0	*	.1	.3	.3	.0	.0	.0	.0	.0	18	.1	.7
-9/-10	.0	.1	.2	.2	.1	.1	.0	.0	.0	.0	15	.0	.6
-11/-13	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	3		203		663		245		17		2394	367	2027
PCT	.1	54 2.3	521 8.5	610 21.8	25.5 27.7	10.2	3.1	.7	.2		100.0	15.3	84.7

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.6	.0	.0	.0	.0	.9	.0	1.8	.0	.0	.0	.0	1.8
1-2	.0	.6	.2	.0	.0	.0	.8	.0	2.5	1.5	.0	.0	.0	4.0
3-4	.0	1.6	1.3	.2	.0	.0	3.1	.0	.6	1.6	.2	.0	.0	2.4
5-6	.0	.0	1.6	.3	.2	.0	2.1	.0	.3	1.5	.4	.0	.0	2.3
7	.0	.0	.2	.5	.0	.0	.7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.8	3.3	1.0	.2	.0	7.6	.0	5.2	4.9	.8	.5	.0	11.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.6	.0	.0	.0	.0	.6	.0	.4	.0	.0	.0	.0	.4
1-2	.0	1.2	.4	.0	.0	.0	1.7	.0	.8	1.0	.0	.0	.0	1.8
3-4	.0	.4	1.5	.4	.0	.0	2.3	.2	1.3	.7	.1	.0	.0	2.2
5-6	.0	.1	.2	.3	.0	.0	.6	.0	.4	.3	.2	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0
TOT PCT	.0	2.4	2.0	.7	.0	.0	5.2	.2	2.9	2.3	.8	.0	.0	6.1

PERIOD: (OVER-ALL) 1963-1970

AUGUST

AREA 0001 BELLE ISLE STRAIT
50.8N 57.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	1.2	.0	.0	.0	.0		1.8	.5	2.9	.5	.0	.0	.0		3.8
1-2	.0	3.8	1.5	.0	.0	.0		5.4	.0	4.3	1.5	.0	.0	.0		5.9
3-4	.0	1.6	2.6	.9	.0	.0		5.1	.0	2.3	6.9	.8	.0	.0		9.9
5-6	.0	.2	1.1	.5	.0	.0		1.7	.0	.1	4.1	2.0	.2	.0		6.3
7	.0	.0	.4	.3	.0	.0		.7	.0	.0	1.2	1.0	.2	.0		2.3
8-9	.0	.0	.0	.4	.0	.0		.4	.0	.0	.2	.9	.0	.0		1.1
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.2	.3	.0		.6
12	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.2	.0	.0		.2
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.6	6.8	5.7	2.1	.0	.0		15.3	.5	9.6	14.3	5.1	.7	.0		30.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.3	1.0	.0	.0	.0	.0		1.3	.4	.4	.2	.0	.0	.0		.9	
1-2	.3	3.7	1.4	.0	.0	.0		5.4	.7	1.2	.9	.0	.0	.0		2.3	
3-4	.0	.8	1.9	.6	.0	.0		3.2	.0	.5	1.8	.2	.0	.0		2.5	
5-6	.0	.6	1.1	.3	.0	.0		1.9	.0	.0	.8	.8	.3	.0		1.2	
7	.0	.0	.7	.1	.0	.0		.9	.0	.0	.4	.0	.0	.0		.4	
8-9	.0	.0	.7	.3	.0	.0		.5	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.2	.1	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.2	.0	.0		.2	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.6	6.1	5.4	1.4	.0	.0		13.4	.6	2.1	4.1	.4	.3	.0		7.5	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.3	8.8	.7	.0	.0	.0	15.9	
1-2	1.2	18.0	8.2	.0	.0	.0	27.4	
3-4	.2	8.8	17.9	3.2	.0	.0	30.1	
5-6	.0	1.7	10.5	3.8	.7	.0	16.7	
7	.0	.0	3.3	7.0	.2	.0	5.5	
8-9	.0	.0	.5	1.8	.0	.0	2.3	
10-11	.0	.0	.2	.5	.3	.0	1.0	
12	.0	.0	.0	.5	.0	.0	.5	
13-16	.0	.0	.0	.2	.2	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.7	37.4	41.2	17.0	1.7	.0	100.0	599

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.0	21.5	21.1	10.0	2.7	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	570	3
6-7	.0	2.1	7.0	5.8	3.7	1.7	1.3	.2	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	212	5
8-9	.0	.5	.5	1.2	1.3	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	6
10-11	.0	.2	.1	.6	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	6
12-13	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	6.6	1.8	1.5	1.1	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	2
TOTAL	101	248	288	178	78	30	17	6	3	0	1	1	0	0	0	0	0	0	0	951	4
PCT	10.6	26.1	30.3	18.7	8.2	3.2	1.8	.6	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1898-1970
(OVER-ALL) 1860-1970

AREA 0001 BELLE ISLE STRAIT
50.8N 57.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DR7L	FR7G PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG SNOW	
N	5.3	6.0	7.4	.0	.0	.0	.4	19.2	1.7	.0	4.6	.0	.0	.0	74.5
NE	12.8	6.3	4.0	.0	.0	.0	.2	25.3	.9	.0	7.9	.8	.0	.0	65.1
E	12.7	4.0	3.4	.0	.0	.0	.4	20.0	3.6	.0	7.0	1.9	.0	.0	67.5
SE	9.7	3.2	6.3	.0	.0	.0	.0	19.1	5.7	.0	15.8	.6	1.9	.0	56.9
S	9.1	2.2	5.3	.0	.0	.0	.0	16.6	2.6	.6	10.4	1.2	.9	.0	68.0
SW	4.5	1.4	3.5	.0	.0	.0	.3	9.7	.7	.3	12.2	.3	1.1	.0	75.8
W	3.3	.9	1.5	.0	.0	.0	.0	5.3	.2	.8	7.2	.0	.8	.0	85.9
NW	5.0	4.3	2.7	.0	.0	.0	.0	11.8	.8	.0	4.9	.4	.0	.0	82.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	.0	.0	.0	93.9
TOT PCT	6.5	2.9	4.3	.0	.0	.0	.2	13.4	1.4	.3	9.2	.5	.7	.0	74.7
TOT OBS:	2446														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DR7L	FR7G PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG SNOW	
0000	8.3	3.6	5.2	.0	.0	.0	.4	17.2	1.3	.0	10.6	.1	.6	.0	70.2
0600	6.5	2.3	5.4	.0	.0	.0	.0	13.4	1.9	1.1	7.7	.4	.4	.0	75.3
1200	5.5	2.9	3.9	.0	.1	.0	.0	12.2	.9	.1	10.4	.7	.5	.0	75.3
1800	5.3	2.0	3.6	.0	.0	.0	.2	10.7	1.4	.0	10.0	.7	1.5	.0	75.8
TOT PCT	6.4	2.8	4.4	.0	.1	.0	.2	13.5	1.3	.3	9.8	.5	.7	.0	74.0
TOT OBS:	2563														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	3.0	4.0	1.4	.3	.0		9.2	14.4		8.2	9.5	10.9	10.2	10.3	7.3	10.1	6.0
NE	.4	3.6	4.7	1.4	.4	.0		10.0	14.1		9.4	9.5	9.0	8.6	12.3	12.6	8.0	9.6
E	.4	1.9	2.0	.7	.4	.0		5.0	13.1		6.0	4.4	4.4	3.5	5.1	6.7	4.0	4.6
SE	.5	2.3	1.4	.5	.2	.0		4.8	12.0		5.6	4.4	3.9	5.4	4.2	3.8	5.6	5.8
S	.6	4.7	4.4	1.8	1.1	.0		12.6	15.1		11.4	10.9	14.4	13.6	12.8	11.9	12.6	14.0
SW	1.0	9.2	13.7	6.0	1.8	.2		31.8	16.2		36.7	29.3	29.1	26.3	28.4	29.7	37.0	39.2
W	.9	5.3	6.8	2.0	.3	.0		15.3	13.8		13.6	17.8	15.7	17.3	19.6	19.1	13.4	12.7
NW	.5	3.6	4.1	1.3	.2	.0		9.7	13.7		7.9	13.8	10.3	13.8	12.0	8.0	6.5	5.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0		1.2	.5	2.2	1.3	1.3	.9	2.7	1.3
TOT OBS	162	872	1057	393	110	4	2598		14.5		497	216	312	223	528	224	364	234
TOT PCT	6.2	33.6	40.7	15.1	4.2	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	03	06	12
N	1.8	4.0	2.6	.8	.0			9.2	14.4		8.6	10.6	9.4	8.5
NE	2.0	4.4	2.8	.7	.0			10.0	14.1		9.4	8.8	12.4	8.7
E	1.2	2.3	1.1	.4	.0			5.0	13.1		5.5	4.0	5.6	4.6
SE	1.6	2.2	.7	.2	.1			4.8	12.0		5.3	4.5	4.1	5.6
S	2.3	5.8	2.9	1.5	.2			12.6	15.1		11.2	14.1	12.5	13.2
SW	4.2	13.9	9.6	3.8	.3			31.8	16.2		36.4	27.9	27.4	37.9
W	3.0	7.3	4.0	1.0	.1			15.3	13.8		14.9	16.4	16.7	13.1
NW	1.9	4.3	2.8	.5	.0			9.7	13.7		9.7	11.8	10.8	6.3
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	1.5							1.5	.0		1.0	1.9	1.2	2.2
TOT OBS	509	1152	688	229	20	2598			14.5		713	535	752	598
TOT PCT	19.6	44.3	26.5	8.8	.8			100.0			100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1898-1970
(OVER-ALL) 1860-1970

AREA 0001 BELL ISLE STRAIT
50.8N 57.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	1.0	5.8	34.5	40.0	14.9	3.8	.1	14.2	100.0	713
0600Z	1.9	4.3	32.7	43.4	13.6	4.1	.0	14.4	100.0	535
1200Z	1.2	5.2	35.2	40.3	14.9	3.1	.1	13.8	100.0	752
1800Z	2.2	3.3	31.1	39.6	17.1	6.4	.3	15.7	100.0	598
TOT	39	123	872	1057	393	110	4	14.5		2598
PCT	1.5	4.7	33.6	40.7	15.1	4.2	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	.9	2.1	4.7		5.5
NE	1.0	.7	2.2	5.4		6.5
E	.5	.5	1.2	3.0		6.4
SE	.2	.4	.8	3.2		6.9
S	2.6	1.1	2.0	5.5		5.6
SW	10.6	4.0	8.1	11.0		4.7
W	7.4	2.2	2.5	2.8		3.5
NW	2.9	1.6	1.9	1.8		4.2
VAR	.0	.0	.0	.0		.0
CALM	1.1	.3	.7	.3		4.0
TOT OBS	356	146	268	468	1238	5.0
TOT PCT	28.8	11.8	21.6	37.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.2	.1	.3	1.5	1.8	1.3	.5	.0	.0	.2	4.3	
NE	.1	.2	.0	2.5	2.1	1.1	.2	.0	.0	.2	3.0	
E	.4	.1	.8	1.2	.7	.5	.0	.0	.2	.1	2.0	
SE	.4	.0	.2	1.0	.6	.8	.2	.0	.2	.1	1.1	
S	1.0	.1	.4	1.3	1.4	.8	.8	.2	.2	.3	4.9	
SW	1.7	.2	.1	2.6	4.0	3.3	1.3	.2	.6	1.3	18.6	
W	.3	.0	.2	.5	1.1	1.1	.3	.2	.0	.1	11.0	
NW	.2	.0	.2	.5	1.0	.8	.2	.0	.1	.1	5.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.2	.2	.2	.0	.0	.0	.1	1.7	
TOT OBS	56	7	18	139	159	124	45	5	15	31	639	1238
TOT PCT	4.5	.6	1.8	11.2	12.8	10.0	3.6	.4	1.2	2.5	51.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.3	3.3	3.5	3.5	3.5	3.6	3.7	3.7
>5000	2.7	3.7	3.9	3.9	3.9	4.0	4.1	4.1
>3500	5.0	6.8	7.3	7.4	7.6	7.7	7.8	7.8
>2000	11.9	16.4	17.2	17.4	17.6	17.7	17.8	17.8
>1000	20.0	27.9	29.8	30.1	30.4	30.6	30.7	30.7
>600	24.8	36.7	40.4	41.2	41.7	41.8	41.9	41.9
>300	25.4	38.0	41.7	42.5	43.0	43.3	43.4	43.4
>150	25.5	38.1	41.9	43.0	43.6	43.8	44.0	44.0
>0	25.6	38.8	43.2	44.5	45.4	46.4	48.2	48.6
TOTAL	320	484	539	555	566	579	601	606

TOTAL NUMBER OF OBS: 1748

PCT FREQ NH <5/8: 51.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	18.9	11.4	10.6	6.7	4.3	5.9	6.2	6.4	25.8	3.8	1380

SEPTEMBER

PERIOD: (PRIMARY) 1898-1970
(OVER-ALL) 1860-1970AREA 0001 BELL ISLE STRAIT
50.8N 57.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.3	.0	.1	.3	.3	.1	*	.0	.0	1.2	
	NO PCP	.2	.4	.1	.3	.8	2.1	.3	.3	.0	*	4.5	
	TOT %	.3	.7	.1	.4	1.1	2.3	.4	.3	.0	*	5.7	
1/2<1	PCP	.2	.3	.2	.1	.4	.1	.1	.1	.0	.0	1.6	
	NO PCP	.1	.2	.2	.3	.4	1.6	.6	.2	.0	.0	3.5	
	TOT %	.3	.6	.4	.4	.7	1.7	.7	.3	.0	.0	5.1	
1<2	PCP	.1	.1	*	.2	.1	.1	.0	.0	.0	.0	.7	
	NO PCP	*	.1	*	.1	.1	.2	.1	*	.0	.0	.7	
	TOT %	.1	.2	.1	.3	.2	.3	.1	*	.0	.0	1.4	
2<5	PCP	.2	.4	.1	.1	.3	.4	.1	.1	.0	.0	1.6	
	NO PCP	.1	.1	.1	.1	.4	.8	.1	.1	.0	.1	1.8	
	TOT %	.3	.4	.2	.1	.7	1.2	.2	.1	.0	.1	3.4	
5<10	PCP	.9	1.3	.5	.3	.9	1.7	.4	.9	.0	.0	6.9	
	NO PCP	2.4	2.7	1.1	1.4	4.1	10.2	5.1	3.4	.0	.2	30.9	
	TOT %	3.5	4.0	1.7	1.7	5.0	12.0	5.5	4.3	.0	.2	37.8	
10+	PCP	.2	.1	.1	.2	.2	.9	.1	.1	.0	.0	1.4	
	NO PCP	4.5	3.8	2.3	1.8	5.0	14.2	7.9	4.7	.0	1.0	45.2	
	TOT %	4.8	3.9	2.4	1.9	5.1	14.7	8.0	4.7	.0	1.0	46.6	
TOT OBS													2443
TOT PCT		9.4	9.8	4.9	4.9	12.8	32.1	15.0	9.8	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	*	.2	.1	.2	*	.1	.0	*	1.0	
	4-10	.1	.2	*	.2	.4	.8	.1	.1	.0	*	2.0	
	11-21	.1	.2	.0	*	.4	1.0	.2	*	.0	*	2.0	
	22+	.0	.2	.0	.0	.1	.3	*	.0	.0	*	.6	
	TOT %	.3	.7	.1	.4	1.0	2.3	.4	.3	.0	*	5.6	
1/2<1	0-3	.0	.0	.0	.1	.1	.1	*	.0	.0	.0	.3	
	4-10	.2	.3	.2	.3	.3	.6	.4	.2	.0	.0	2.4	
	11-21	.1	.2	.2	*	.2	.7	.2	.1	.0	.0	1.6	
	22+	*	.1	.1	.0	.2	.2	*	.1	.0	.0	.6	
	TOT %	.3	.5	.4	.4	.7	1.6	.7	.3	.0	.0	5.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.1	*	.1	*	*	.0	.0	.4	
	11-21	*	.1	*	.2	.1	.2	*	.0	.0	.0	.6	
	22+	*	*	*	.1	.1	*	*	.0	.0	.0	.3	
	TOT %	.2	.2	.1	.3	.2	.3	.1	*	.0	.0	1.4	
2<5	0-3	.0	.0	*	.0	*	.0	.0	.0	.0	.1	.2	
	4-10	.0	.1	*	*	.2	.2	.2	.1	.0	.0	.8	
	11-21	.1	.2	.1	*	.3	.6	*	*	.0	.0	1.5	
	22+	.1	.2	*	*	.1	.4	.1	.1	.0	.0	1.1	
	TOT %	.3	.5	.2	.1	.7	1.2	.3	.2	.0	.1	3.5	
5<10	0-3	.2	.1	.1	.2	.3	.6	.4	.1	.0	.2	2.1	
	4-10	.9	1.1	.4	.7	1.6	3.0	1.7	1.4	.0	.0	10.8	
	11-21	1.6	1.9	.9	.4	2.0	4.9	2.6	1.8	.0	.0	16.1	
	22+	.8	.9	.3	.4	1.0	3.3	.8	.8	.0	.0	8.1	
	TOT %	3.5	3.9	1.6	1.7	4.9	11.8	5.4	4.2	.0	.2	37.1	
10+	0-3	.2	.1	.2	.1	.1	*	.3	.2	.0	1.2	2.4	
	4-10	1.6	1.9	1.1	.9	2.0	4.4	2.7	1.7	.0	.0	16.4	
	11-21	2.1	1.6	.9	.7	1.5	6.5	3.8	2.3	.0	.0	19.4	
	22+	.7	.5	.4	.2	1.5	3.8	1.5	.6	.0	.0	9.2	
	TOT %	4.7	4.1	2.6	1.9	5.1	14.8	8.2	4.8	.0	1.2	47.4	
TOT OBS													2504
TOT PCT		9.2	10.0	5.0	4.8	12.6	32.0	15.1	9.8	.0	1.5	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1898-1970
(OVER-ALL) 1860-1970

AREA 0001 BELLE ISLE STRAIT
50.8N 57.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3000	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	5.3	.3	1.0	8.6	12.5	8.9	2.6	.0	1.0	1.3	41.6	58.4	303
06009	4.6	.3	1.0	12.4	12.4	9.8	2.0	.3	.7	2.6	46.1	53.9	306
12015	3.5	.9	1.5	11.8	10.3	9.7	5.0	.3	1.5	1.8	46.2	53.8	340
18021	4.0	.5	2.1	9.6	13.3	9.8	4.0	.8	1.3	3.7	49.2	50.8	376
TOT	57	7	19	140	161	127	46	5	15	32	609	716	1325
PCT	4.3	.5	1.4	10.6	12.2	9.6	3.5	.4	1.1	2.4	46.0	54.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	7.0	7.0	1.0	2.9	41.0	41.0	712
06009	5.2	3.9	1.1	3.5	31.3	55.1	543
12015	6.7	5.4	1.0	3.4	40.7	42.4	765
18021	5.6	4.3	2.7	4.0	33.7	49.7	602
TOT	163	142	37	90	976	1214	2622
PCT	6.2	5.4	1.4	3.4	37.2	46.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	6.5	9.7	21.3	25.6	53.1	277
06009	5.3	7.4	23.4	27.7	48.9	282
12015	3.7	6.8	21.1	27.2	51.7	323
18021	4.1	8.2	20.8	30.3	48.9	366
TOT	60	100	269	348	631	1248
PCT	4.8	8.0	21.6	27.9	50.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.1	.1	.0	.0	.0	.0	2	.2
65/69	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
60/64	.0	.0	.2	.1	.1	.5	1.6	.4	43	2.9
55/59	.0	.0	.0	.2	1.2	4.0	8.3	6.7	300	20.4
50/54	.0	.0	.1	.5	3.0	5.8	12.8	11.9	502	34.1
45/49	.0	.0	.1	.6	2.0	7.2	14.8	9.6	430	29.2
40/44	.0	.0	.1	.3	.4	2.6	2.9	5.0	172	11.7
35/39	.0	.0	.0	.0	.1	.3	.5	.6	22	1.5
TOTAL	0	0	7	26	105	302	530	502	1472	100.0
PCT	.0	.0	.5	1.8	7.1	20.5	36.0	34.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
65/69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60/64	.2	.2	.1	.2	.7	1.3	.3	.0	.0	.1
55/59	1.2	.9	1.1	1.5	5.0	8.0	1.7	.6	.0	.5
50/54	1.8	3.0	1.4	1.8	4.8	14.4	3.9	2.4	.0	.6
45/49	3.2	2.8	2.0	1.3	2.6	7.8	4.9	3.8	.0	.9
40/44	2.6	1.7	1.2	.7	.6	1.5	2.4	1.0	.0	.0
35/39	.6	.2	.1	.0	.1	.2	.1	.4	.0	.0
TOTAL	9.5	8.8	5.8	5.4	13.7	33.2	13.3	8.2	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	63	59	58	50	41	38	34	50.0	740
06009	64	60	57	49	39	35	35	48.7	553
12015	67	63	58	50	41	38	35	50.1	788
18021	72	63	60	52	43	41	39	51.9	609
TOT	72	62	58	50	41	37	34	50.2	2690

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.6	5.2	17.9	37.2	38.0	86	368
06009	.0	.0	4.4	18.0	37.8	39.8	87	346
12015	.0	1.7	9.1	19.3	38.0	31.9	84	405
18021	.0	5.5	9.1	26.3	31.0	28.1	81	384
TOT	0	34	106	307	540	514	84	1531

SEPTEMBER

PERIOD: (PRIMARY) 1898-1970
(OVER-ALL) 1860-1970

AREA 0001 BELLE ISLE STRAIT
50.8N 57.0W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	5	.0	.2
14/16	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	8	.0	.3
11/13	.0	.0	.0	.1	.3	.7	1.0	.2	.0	.0	55	.2	2.2
9/10	.0	.0	.0	.3	.7	1.0	.8	.1	.0	.0	69	.7	2.4
7/8	.0	.0	.0	.4	1.7	1.9	.7	.2	.0	.0	115	.8	4.2
6	.0	.0	.2	.6	1.5	1.1	.7	.1	.0	.0	97	.6	3.6
5	.0	.0	.2	1.1	1.8	1.5	.6	.3	.0	.0	127	.5	5.1
4	.0	.1	.4	1.9	2.1	1.6	.9	.0	.0	.0	160	1.4	5.6
3	.0	.1	.8	1.7	2.6	2.2	1.1	.2	.0	.0	200	1.0	7.7
2	.0	.2	1.2	2.3	2.5	2.2	1.7	.0	.0	.0	232	1.2	9.0
1	.0	.3	1.3	2.0	3.5	3.2	.7	.0	.0	.0	247	.9	9.9
0	.0	.2	1.3	2.1	2.8	2.7	.8	.0	.0	.0	225	.9	9.0
-1	.1	.3	.8	2.1	2.1	2.1	.3	.0	.0	.0	179	.8	7.0
-2	.0	.3	1.2	1.4	2.1	.8	.3	.0	.0	.0	143	.4	5.9
-3	.1	.3	.6	1.8	1.3	.7	.1	.0	.0	.0	111	.2	4.6
-4	.0	.4	.7	1.4	1.0	.7	.0	.0	.0	.0	96	.3	3.9
-5	.1	.3	.4	.9	.8	.1	.0	.0	.0	.0	59	.2	2.4
-6	.0	.2	.5	.9	.6	.2	.0	.0	.0	.0	55	.0	2.4
-7/-8	.0	.1	.7	1.2	.4	.1	.0	.0	.0	.0	59	.0	2.3
-9/-10	.0	.2	.5	.5	.1	.0	.0	.0	.0	.0	32	.0	1.4
-11/-13	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	10	.0	.4
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	13	68	251	577	635	526	231	30	4	2	2287	230	2057
PCT	.6	3.0	11.0	23.0	27.8	23.0	10.1	1.3	.2	*	100.0	10.1	89.9

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.7	.0	.0	.0	.0	1.1	.0	.9	.4	.0	.0	.0	1.3
1-2	.1	1.6	1.3	.0	.0	.0	3.1	.2	1.6	.3	.0	.0	.0	2.2
3-4	.0	.6	2.7	.3	.0	.0	3.6	.0	1.1	1.3	.2	.0	.0	2.6
5-6	.0	.0	1.0	.4	.0	.0	1.3	.0	.0	1.5	.5	.0	.0	2.0
7	.0	.0	.6	.2	.3	.0	1.1	.0	.0	.4	.2	.0	.0	.7
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.2	.2	.2	.0	.5
10-11	.0	.0	.2	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.9	5.4	1.5	.7	.0	11.5	.7	3.6	4.2	1.3	.2	.0	9.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.5	.0	.0	.0	.0	.5	.0	.2	.2	.0	.0	.0	.4
1-2	.0	.6	.4	.0	.0	.0	1.0	.0	.5	.2	.0	.0	.0	.7
3-4	.0	.0	.2	.0	.0	.0	.2	.0	.2	.4	.4	.0	.0	.9
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	1.1	.2	.2	.0	2.6	.0	.9	.9	.4	.2	.0	2.3

PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER

AREA 0001 BELLE ISLE STRAIT
90.8N 97.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.6	.5	.0	.0	.0	1.1	.4	1.8	.7	.0	.0	.0	2.9
1-2	.3	2.6	1.1	.0	.0	.0	4.0	.7	5.4	3.1	.0	.0	.0	8.8
3-4	.0	.5	2.4	.4	.0	.0	3.2	.0	2.9	5.3	1.6	.0	.0	9.7
5-6	.0	.1	1.3	.3	.0	.0	1.8	.0	.3	5.0	2.2	1.1	.0	8.6
7	.0	.0	.1	.7	.0	.0	.8	.0	.0	2.2	1.9	.2	.0	4.3
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.2	.7	.4	.0	1.2
10-11	.0	.0	.0	.0	.1	.0	.1	.0	.0	.2	.4	.4	.0	.9
12	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.5	.5	.0	1.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.8	5.4	1.7	.4	.0	11.8	.6	10.5	16.6	7.4	2.7	.2	38.0

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.3	.0	.0	.0	.0	1.3	.2	.2	.2	.0	.0	.0	.6	
1-2	.2	1.4	.4	.0	.0	.0	2.0	.7	1.5	.5	.0	.0	.0	2.7	
3-4	.0	2.2	2.2	.6	.0	.0	4.9	.0	.4	1.9	.2	.0	.0	2.6	
5-6	.0	.4	1.4	.4	.0	.0	2.6	.0	.0	1.3	.0	.0	.0	1.3	
7	.0	.0	.7	.7	.0	.0	.9	.0	.0	.4	1.3	.0	.0	1.6	
8-9	.0	.0	.0	.6	.4	.0	.9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	5.3	4.3	2.4	.8	.0	13.0	.4	2.2	4.3	1.5	.2	.0	8.6	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	6.6	2.0	.0	.0	.0	12.1	
1-2	2.0	15.1	7.3	.0	.0	.0	24.3	
3-4	.0	7.8	16.2	7.6	.0	.0	27.5	
5-6	.0	.9	11.5	7.9	1.1	.0	17.8	
7	.0	.0	4.1	4.8	.5	.0	9.4	
8-9	.0	.0	.4	2.5	1.1	.0	3.9	
10-11	.0	.0	.4	.4	.9	.0	1.6	
12	.0	.0	.2	.9	1.2	.0	2.3	
13-16	.0	.0	.0	.7	.5	.2	.9	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.5	30.4	42.3	14.2	5.5	.2	100.0	563

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.7	14.0	18.6	9.8	3.7	1.1	.2	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	511
6-7	.1	.8	5.8	5.8	4.7	1.9	1.1	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	208
8-9	.2	.6	1.0	1.9	3.2	.9	.5	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	89
10-11	.0	.0	.1	.4	.5	.4	.1	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21
12-13	.0	.0	.2	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
INDEX	8.4	1.9	2.6	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	144
TOTAL	122	171	279	184	123	46	19	16	20	1	2	0	0	0	0	0	0	0	0	0	983
PCT	12.4	17.4	28.4	18.7	12.5	4.7	1.9	1.6	2.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1869-1970

TABLE 1

AREA 0001 BELL ISLE STRAIT
90.8N 97.1W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WEA	
N	6.3	.7	2.0	.4	4.3	.0	.0	12.8	1.1	.0	5.1	.4	.0	.0	.0	80.6
NE	18.3	2.1	7.4	.0	4.7	.0	.6	13.1	1.4	.3	6.7	1.1	.0	.0	.0	57.8
E	19.7	3.9	6.0	.0	1.7	.0	.9	31.3	2.6	.4	14.8	.0	.0	.0	.0	51.4
SE	20.1	1.8	7.8	.0	.8	.0	1.6	32.2	3.5	.0	11.3	.0	.8	.8	.0	51.4
S	14.7	1.5	3.3	.0	.7	.0	.5	20.8	2.8	.5	14.1	.5	2.8	.0	.0	58.5
SW	6.1	2.9	2.8	.0	.5	.0	.2	12.2	1.8	.0	8.4	.2	1.1	.2	.0	76.0
W	.6	.6	.9	.0	.4	.0	.0	2.3	.4	.0	2.5	.3	.4	.0	.0	94.2
NW	2.1	2.1	.9	.0	3.2	.0	.0	8.2	1.7	.0	2.1	.0	.0	.0	.0	88.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	4.3	.0	.0	.0	.0	.0	4.3	.0	.0	17.4	.0	.0	.0	.0	78.3
TOT PCT	8.0	1.9	3.0	*	1.7	.0	.3	14.7	1.6	.1	7.1	.3	.7	.1	.0	75.5
TOT OBS: 2066																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WEA	
00003	9.5	2.0	1.9	.0	1.0	.0	.2	14.4	1.4	.3	6.6	.2	.2	.2	.0	76.9
06009	9.3	1.5	2.9	.0	2.4	.0	.5	15.9	1.2	.0	6.4	.5	.0	.0	.0	76.0
12015	7.3	1.4	3.0	.0	2.4	.0	.5	14.2	2.1	.2	8.2	.0	.9	.0	.0	74.4
18021	6.5	2.6	3.9	.2	1.4	.0	.0	14.6	1.8	.0	6.5	.6	1.4	.2	.0	74.8
TOT PCT	8.1	1.9	2.9	*	1.8	.0	.3	14.7	1.6	.1	7.0	.3	.7	.1	.0	75.5
TOT OBS: 2122																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	3.3	4.8	2.1	.4	.0		11.0	15.6		11.4	9.4	12.6	12.3	12.1	8.6	10.4	8.3
NE	.2	2.7	3.7	1.7	.3	.0		8.7	15.6		8.7	9.1	6.5	8.3	8.9	6.6	10.9	9.5
E	.2	2.4	2.0	.9	.1	.0		5.6	13.5		6.3	7.3	4.4	5.2	5.6	5.8	4.7	6.5
SE	.1	1.9	2.2	1.2	.4	.1		5.9	17.0		4.7	7.9	6.0	6.7	5.3	7.2	5.6	7.1
S	.3	2.3	5.2	2.0	.4	.0		10.2	16.2		10.3	10.8	13.1	7.1	9.6	11.6	8.8	10.4
SW	.6	5.4	11.8	5.0	1.2	*		24.1	16.8		26.3	23.7	20.2	21.1	19.6	25.3	28.5	30.7
W	.5	5.4	9.1	3.3	.7	.1		19.2	16.0		18.7	16.6	18.2	21.3	21.6	20.2	18.3	16.4
NW	.2	4.0	6.2	2.7	.8	.1		14.0	16.6		13.0	14.0	17.3	18.0	16.1	13.1	10.6	9.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0		.7	1.1	1.8	.0	1.2	1.7	2.3	1.2
TOT OBS	86	616	1011	425	98	8	2244		15.9		453	178	275	154	494	181	341	168
TOT PCT	3.8	27.5	45.1	18.9	4.4	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+					00	03	06	18
N	1.4	4.9	3.7	.8	.2		11.0	15.6		10.8	12.5	11.1	9.7
NE	.9	4.3	2.5	.9	*		8.7	15.6		8.8	7.1	8.3	10.4
E	1.2	2.7	1.2	.5	.0		5.6	13.5		6.6	4.7	5.6	5.3
SE	.7	2.6	1.6	.8	.2		5.9	17.0		5.6	6.2	5.8	6.1
S	.9	4.8	3.6	.9	*		10.2	16.2		10.4	11.0	10.1	9.3
SW	2.2	10.6	8.6	2.4	.2		24.1	16.8		25.6	20.5	21.1	29.2
W	1.9	9.1	6.1	1.6	.3		19.2	16.0		18.1	19.3	21.2	17.6
NW	1.7	6.4	4.1	1.5	.3		14.0	16.6		13.3	17.5	15.3	10.3
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALM	1.3						1.3	.0		.8	1.2	1.3	2.6
TOT OBS	273	1022	707	213	29	2244		15.9		631	429	675	509
TOT PCT	12.2	45.5	31.5	9.5	1.3		100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1869-1970

OCTOBER

AREA 0001 BELL ISLE STRAIT
90.8N 57.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	.8	2.7	29.8	41.2	20.4	4.6	.5	16.0	100.0	631
06009	1.2	2.8	31.2	41.5	19.6	3.3	.5	15.5	100.0	429
12015	1.3	2.2	25.2	30.5	16.1	4.6	.0	15.7	100.0	675
18021	2.0	2.6	24.4	45.6	20.2	4.7	.6	16.5	100.0	509
TOT	29	57	616	1011	425	98	.8	15.9		2244
PCT	1.3	2.5	27.5	45.1	18.9	4.4	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	R & OBS	MEAN TOTAL CLOUD COVER
N	2.3	1.4	3.2	4.5	5.5
NE	1.0	.6	2.1	4.9	6.4
E	.4	.5	.9	2.3	6.4
SE	.8	.2	.7	3.9	6.7
S	1.6	.7	2.1	6.1	6.7
SW	6.0	3.3	6.6	10.0	5.3
W	7.3	2.3	5.6	4.0	4.2
NW	3.3	2.3	3.7	4.2	4.9
VAR	.0	.0	.0	.0	.0
PALM	.5	.3	.1	.5	4.4
TOT OBS	283	140	304	493	1220
TOT PCT	23.2	11.5	24.9	40.4	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999	8000+	ANY HGT	OBS
.2	.1	.4	1.4	1.8	1.9	.4	.1	.0	.1	4.9	
.3	.1	.6	.9	1.9	1.7	.1	.1	.0	.4	2.6	
.5	.0	.1	.6	.5	.4	.2	.0	.2	.1	1.5	
.6	.2	.3	.9	.8	.5	.1	.0	.2	.1	1.8	
1.4	.1	.7	1.2	1.5	1.0	.4	.1	.3	.4	3.4	
.9	.2	.3	2.3	4.8	3.3	.8	.5	.2	.6	12.1	
.1	.0	.1	1.0	2.0	2.0	.6	.3	.1	.3	12.8	
.3	.0	.5	.8	1.8	1.5	.9	.2	.2	.2	7.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.0	.0	.1	.7	.0	.1	.0	.0	.0	1.0	
.6	.8	.6	1.1	1.85	1.49	.44	.14	.15	.25	577	1220
4.6	.7	3.0	9.1	13.2	12.2	3.6	1.1	1.2	2.7	47.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)	
	> 10	> 5	> 2	> 1	> 1/2	> 1/4	> 50VD	> 0	> 0	> 0
> 1000	2.3	3.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
> 5000	3.2	4.2	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
> 3500	5.9	7.8	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
> 2000	13.7	19.3	20.1	20.2	20.2	20.2	20.2	20.2	20.2	20.2
> 1000	22.3	32.3	34.8	35.0	35.0	35.4	35.4	35.4	35.4	35.4
> 600	27.2	37.7	43.5	43.9	44.1	44.5	44.5	44.5	44.5	44.5
> 300	28.0	41.7	46.1	46.7	47.0	47.4	47.4	47.4	47.4	47.4
> 150	28.2	42.0	46.7	47.4	47.6	48.0	48.0	48.0	48.0	48.0
> 0	28.3	42.7	48.0	49.2	49.5	50.3	51.9	52.4	52.4	52.4
TOTAL	348	525	590	605	609	619	638	645	645	645

TOTAL NUMBER OF OBS: 1230

PCT FREQ NH < 5/8: 47.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL
13.0	10.5	10.0	6.3	6.6	5.2	7.9	7.2	30.0	3.6	1356

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1869-1970

OCTOBER

AREA 0001 BELLE ISLE STRAIT
30.8N 57.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.2	.0	.1	.1	.2	.0	.2	.0	.0	1.0	
	NO PCP	.2	.1	.4	.3	.7	.9	.3	.9	.0	.2	3.1	
	TOT %	.4	.3	.4	.4	.8	1.1	.3	.2	.0	.2	4.1	
1/2<1	PCP	.1	.3	*	.0	.2	.2	*	.1	.0	.0	1.0	
	NO PCP	.2	.3	.2	.3	.4	.5	.1	.2	.0	.0	2.1	
	TOT %	.3	.6	.3	.3	.6	.7	.1	.3	.0	.0	3.1	
1<2	PCP	.1	*	.1	.1	*	.1	*	.1	.0	.0	.6	
	NO PCP	.0	.1	.0	*	.2	.2	*	.0	.0	.0	.6	
	TOT %	.1	.1	.1	.2	.2	.3	.1	.1	.0	.0	1.2	
2<5	PCP	.2	.6	.4	.4	.4	.4	*	.1	.0	.0	2.8	
	NO PCP	.2	.3	.4	.1	.4	.7	.4	.3	.0	*	2.7	
	TOT %	.4	.9	.8	.5	.8	1.2	.4	.4	.0	*	5.5	
5<10	PCP	.6	1.7	1.1	1.2	1.0	1.4	.4	.5	.0	.0	8.0	
	NO PCP	3.8	1.9	1.3	1.7	2.5	6.6	5.0	4.1	.0	.0	26.9	
	TOT %	4.3	3.6	2.4	2.9	3.6	8.2	5.4	4.6	.0	.0	34.9	
10+	PCP	.2	*	.1	.2	.4	.3	.1	.2	.0	*	1.5	
	NO PCP	5.2	3.2	1.6	1.6	3.7	12.3	12.9	8.3	.0	.8	49.7	
	TOT %	5.4	3.2	1.7	1.8	4.1	12.6	13.0	8.5	.0	.9	51.2	
TOT OBS		2067											
TOT PCT		11.0	8.7	5.6	6.0	10.1	24.1	19.3	14.1	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	*	.2	.0	.0	.0	.2	.5	
	4-10	.1	*	.2	.1	.2	.3	.2	*	.0		1.2	
	11-21	.2	.2	.1	.1	.3	.4	.1	.0	.0		1.6	
	22+	.1	.0	.0	.2	.1	.2	.0	.2	.0		.7	
	TOT %	.4	.3	.4	.4	.8	1.1	.3	.2	.0	.2	3.9	
1/2<1	0-3	.0	*	.0	.0	*	.1	.0	.0	.0	.0	.2	
	4-10	.1	.1	.1	.2	.1	.3	.1	*	.0		1.1	
	11-21	.1	.3	.1	*	.3	.2	.0	.1	.0		1.1	
	22+	.1	.1	.1	*	.2	*	*	.2	.0		.6	
	TOT %	.3	.6	.3	.3	.6	.7	.1	.3	.0	.0	3.0	
1<2	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	*	*	.1	.0	.0	.0	.0	.0		.1	
	11-21	*	.0	.1	*	.1	.2	.0	.0	.0		.5	
	22+	*	*	.0	*	.2	.2	.1	.1	.0		.6	
	TOT %	.1	.1	.1	.2	.3	.3	.1	.1	.0	.0	1.2	
2<5	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	.1	.1	.2	.1	.1	.2	.1	.1	.0		.9	
	11-21	.1	.4	.3	.1	.5	.7	.3	.1	.0		2.6	
	22+	.2	.3	.2	.3	.3	.4	.0	.2	.0		1.9	
	TOT %	.4	.8	.7	.6	.9	1.3	.4	.4	.0	*	5.6	
5<10	0-3	.1	*	.1	*	*	.1	.2	.0	.0	*	.6	
	4-10	1.0	.8	.8	.7	.8	1.2	1.2	1.2	.0		7.6	
	11-21	1.9	1.5	.8	1.1	1.8	4.7	2.5	2.1	.0		16.4	
	22+	1.2	1.2	.5	1.0	.9	2.0	1.3	1.4	.0		9.5	
	TOT %	4.2	3.5	2.3	2.8	3.6	7.9	5.2	4.6	.0	*	34.2	
10+	0-3	.3	.1	*	*	.1	.2	.3	.2	.0	.9	2.2	
	4-10	2.0	1.5	1.0	.8	1.0	3.3	3.7	2.6	.0		16.0	
	11-21	2.6	1.3	.5	.8	1.9	5.7	6.3	4.1	.0		23.2	
	22+	.4	.5	.3	.1	.9	3.6	2.8	1.6	.0		10.8	
	TOT %	5.7	3.4	1.8	1.8	4.0	12.8	13.1	8.6	.0	.9	52.1	
TOT OBS		2155											
TOT PCT		11.1	8.7	5.6	6.0	10.1	24.1	19.1	14.1	.0	1.2	100.0	

OCTOBER

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1869-1970AREA 0001 BELL ISLE STRAIT
50.8N 57.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	4.8	.6	1.3	7.7	12.2	11.5	1.3	2.2	1.6	2.6	45.8	54.7	312
06009	6.6	.4	4.3	7.4	13.2	9.7	3.9	.0	.8	1.9	48.1	51.9	258
12015	3.0	1.1	2.2	10.3	15.4	11.9	4.6	.0	.8	2.7	52.3	47.7	369
18021	4.1	.3	3.8	9.1	17.1	13.2	3.8	1.2	1.5	1.5	55.6	44.4	340
TOT	57	8	36	112	187	150	44	14	15	26	649	630	1279
PCT	4.5	.6	2.8	8.8	14.6	11.7	3.4	1.1	1.2	2.0	50.7	49.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	4.4	2.4	.6	4.4	39.1	49.1	617
06009	2.6	2.8	1.4	5.2	34.1	53.9	425
12015	4.2	3.9	1.5	6.2	34.4	49.7	660
18021	4.1	2.6	1.4	7.3	28.1	56.6	509
TOT	87	66	27	127	756	1148	2211
PCT	3.9	3.0	1.2	5.7	34.2	51.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	4.7	7.0	18.7	30.8	50.5	299
06009	7.0	12.3	21.8	29.6	48.6	243
12015	2.8	8.5	22.8	31.2	43.9	355
18021	3.9	8.4	22.2	34.0	43.2	333
TOT	54	106	264	397	569	1230
PCT	4.4	8.9	21.5	32.3	46.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
60/44	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
55/59	.0	.0	.0	.2	.2	.2	.4	.6	24	1.7
50/44	.0	.1	.2	.2	1.0	2.2	3.5	3.0	144	10.3
45/49	.0	.1	.1	.4	1.9	4.9	8.8	9.4	359	25.8
40/44	.0	.1	.1	1.1	3.4	5.2	10.0	11.5	441	31.6
35/39	.0	.1	.1	.9	2.7	4.9	5.2	7.5	297	21.3
30/34	.0	.0	.1	.6	1.6	1.5	1.8	2.3	112	8.0
25/29	.0	.0	.0	.3	.0	.1	.4	.3	14	1.0
20/24	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
TOTAL	0	7	10	53	154	267	419	484	1394	100.0
PCT	.0	.5	.7	3.8	11.0	19.2	30.1	34.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
45/49	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
60/44	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
55/59	.1	.0	.0	.1	.5	.8	.2	.0	.0	.0
50/44	.4	.5	.4	.5	1.8	3.9	1.8	1.0	.0	.1
45/49	2.0	2.4	1.3	2.0	3.2	8.1	4.6	1.8	.0	.4
40/44	2.5	2.8	1.6	1.7	2.7	8.4	7.5	4.0	.0	.4
35/39	3.7	1.9	1.1	.8	1.3	3.5	3.6	4.3	.0	.6
30/34	1.7	.7	.1	.2	.2	.8	1.8	2.4	.0	.1
25/29	.2	.1	.0	.0	.0	.0	.2	.4	.0	.0
20/24	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	10.7	8.4	4.6	5.3	9.9	25.4	19.7	14.5	.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	65	55	51	42	33	30	28	42.3	639
06009	61	56	52	42	32	27	24	41.9	437
12015	59	55	51	42	32	26	25	41.7	684
18021	60	57	52	43	34	31	29	43.1	516
TOT	65	55	52	42	33	29	24	42.2	2276

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.3	10.4	18.6	34.3	32.4	83	375
06009	.0	2.7	9.8	16.2	31.0	38.4	84	297
12015	.0	4.1	11.0	19.9	28.1	36.8	83	391
18021	.0	9.1	12.8	20.7	25.6	31.8	80	352
TOT	0	72	156	249	427	492	82	1414

OCTOBER

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1869-1970

AREA 0001 BELLE ISLE STRAIT
50.8N 57.1W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.3	.2	.1	.0	.0	9	.1	.4
11/13	.0	.0	.0	.0	.0	.0	.2	.5	.2	.1	.0	.0	17	.1	.9
9/10	.0	.0	.0	.0	.0	.1	.3	.4	.2	.1	.0	.1	20	.1	1.0
7/8	.0	.0	.0	.0	.1	.3	1.1	.6	.3	.1	.0	.0	46	.3	2.1
6	.0	.0	.0	.0	.0	.5	1.4	.5	.2	.0	.0	.0	50	.2	2.4
5	.0	.0	.0	.0	.4	1.3	1.2	.6	.3	.1	.1	.0	75	.4	3.6
4	.0	.0	.0	.0	.3	1.8	1.6	1.0	.4	.2	.0	.0	100	.6	4.7
3	.0	.0	.0	.0	1.2	2.7	1.5	1.5	.4	.1	.0	.0	139	1.1	6.3
2	.0	.0	.0	.4	2.0	3.4	2.5	1.0	.2	.1	.0	.0	180	1.0	8.6
1	.0	.0	.0	.4	3.2	2.6	2.2	1.3	.3	.1	.0	.0	191	.9	9.3
0	.0	.0	.0	.0	2.7	2.3	2.0	1.3	.1	.0	.0	.0	174	.9	8.3
-1	.0	.0	.0	1.1	2.6	1.9	2.2	.7	.2	.0	.0	.0	166	.5	8.3
-2	.0	.0	.1	1.3	2.1	1.5	1.4	.5	.2	.0	.0	.0	134	.3	6.8
-3	.0	.0	.2	1.3	1.5	1.9	1.3	.6	.0	.1	.0	.0	128	.3	6.5
-4	.0	.0	.3	1.3	1.3	1.4	.6	.2	.0	.1	.0	.0	97	.2	5.0
-5	.0	.1	.4	.8	1.1	1.2	.7	.2	.0	.0	.0	.0	83	.1	4.4
-6	.0	.0	.6	.4	.7	1.0	.5	.0	.0	.0	.0	.0	62	.0	3.3
-7/-8	.0	.1	.9	1.3	1.7	1.1	.3	.0	.1	.0	.0	.0	107	.1	4.3
-9/-10	.0	.3	1.0	.9	1.0	.5	.1	.1	.0	.0	.0	.0	70	.0	3.7
-11/-13	.1	.2	.4	.4	.2	.1	.0	.0	.0	.0	.0	.0	25	.0	1.3
-14/-16	.0	.0	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	10	.0	.5
-17/-19	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	1	11	76	199	481	403	213	99	16	1	1	1	1881	131	1750
PCT	.1	.6	4.0	10.6	22.3	25.6	21.4	11.3	3.1	.9	.1	.1	100.0	7.0	93.0

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.3	.0	.0	.0	.0	.3	.0	.7	.2	.0	.0	.0	.9
1-2	.2	.6	1.7	.0	.0	.0	2.5	.4	1.5	1.8	.0	.0	.0	3.7
3-4	.0	1.2	2.2	.4	.0	.0	3.8	.0	.5	2.0	.9	.0	.0	3.5
5-6	.0	.2	1.8	.3	.0	.0	2.3	.0	.0	.5	.7	.0	.0	1.3
7	.0	.0	.0	.4	.0	.0	.4	.0	.2	.5	.0	.0	.0	.7
8-9	.0	.0	.0	.7	.1	.0	.8	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.1	.4	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.3	5.8	2.3	.3	.0	11.0	.4	3.0	5.1	2.8	.5	.0	11.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.3	.0	.0	.0	.0	.5	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.7	.4	.0	.0	.0	1.1	.0	1.2	.6	.0	.0	.0	1.8
3-4	.0	.0	.7	.0	.0	.0	.7	.0	.4	.4	.0	.0	.0	.8
5-6	.0	.0	.9	.1	.0	.0	1.0	.0	.0	1.3	.2	.0	.0	1.5
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.1	1.9	.6	.0	.0	3.7	.0	2.0	2.2	.4	.4	.2	5.2

PERIOD: (OVER-ALL) 1963-1970

OCTOBER

AREA 0001 BELLE ISLE STRAIT
50.8N 57.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.3	.0	.0	.0	.6	.4	1.3	.0	.0	.0	.0	1.7
1-2	.2	1.1	.4	.0	.0	.0	1.7	.0	1.3	1.3	.0	.0	.0	2.6
3-4	.0	.3	2.2	.5	.0	.0	3.0	.0	.8	6.3	1.6	.0	.0	8.7
5-6	.0	.1	2.3	.5	.2	.0	3.1	.0	.2	3.1	1.4	.2	.0	4.9
7	.0	.0	.5	1.0	.0	.0	1.5	.0	.0	1.1	1.7	.2	.0	3.0
8-9	.0	.0	.1	.4	.2	.0	.7	.0	.2	.2	1.5	.4	.0	2.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.2	.5
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.2	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.8	5.9	2.5	.4	.0	10.7	.4	3.8	12.1	6.6	1.4	.2	24.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	.8	.2	.0	.0	.0	1.3	.4	.6	.0	.0	.0	.0	.9	
1-2	.1	1.8	1.0	.0	.0	.0	2.9	.0	1.1	1.2	.0	.0	.0	2.3	
3-4	.0	2.3	4.1	.6	.0	.0	7.0	.0	.7	3.0	.4	.0	.0	4.1	
5-6	.0	.0	2.0	1.5	.0	.0	3.5	.0	.4	.9	.6	.0	.0	1.8	
7	.0	.0	.7	.6	.2	.0	1.4	.0	.0	.7	1.0	.5	.0	2.2	
8-9	.0	.0	.6	.4	.0	.0	1.0	.0	.0	.0	.4	.0	.0	.5	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.0	.1	.0	.0	.1	.0	.2	.2	.2	.0	.0	.6	
13-16	.0	.0	.0	.2	.5	.2	.9	.0	.0	.0	.4	.2	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.9	8.5	3.4	.7	.4	18.4	.4	2.9	6.0	3.2	.7	.0	13.2	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.8	5.0	.7	.0	.0	.0	9.5	
1-2	.9	9.2	8.3	.0	.0	.0	18.4	
3-4	.0	6.3	20.7	4.2	.0	.0	31.1	
5-6	.0	.9	12.7	4.2	.3	.0	19.1	
7	.0	.2	3.5	5.0	.9	.0	9.5	
8-9	.0	.2	.9	1.8	.7	.0	5.6	
10-11	.0	.0	.0	1.7	.0	.2	1.9	
12	.0	.2	.2	1.0	.7	.0	2.1	
13-16	.0	.0	.0	.5	1.6	.2	2.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.2	.2	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.2	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.7	21.9	46.9	21.5	4.3	.7	100.0	576

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.0	10.8	21.2	10.2	3.1	1.6	.7	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	483	4
6-7	.0	1.2	5.0	5.8	3.2	3.6	1.9	1.3	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	215	6
8-9	.0	.4	1.2	1.6	1.7	1.1	.7	.6	.5	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	77	8
10-11	.0	.3	.3	.3	.6	.3	.4	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	7
12-13	.0	.0	.3	.1	.0	.1	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	10
>13	.0	.0	.0	.2	.2	.1	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	127	3
TOTET	4.6	2.6	2.5	1.4	.7	.5	.3	.1	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	967	5
TOTAL	7.2	145	299	186	90	69	42	22	23	2	5	0	2	0	0	0	0	0	0	100.0	
PCT	7.6	15.3	30.5	19.6	9.5	7.3	4.4	2.3	2.4	.2	.5	.0	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1928-1970
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NOVEMBER

AREA 0001 BELLE ISLE STRAIT
50.8N 57.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL PCPN	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WFA
N	3.6	2.4	3.2	.0	12.2	.0	.6	21.2	6.9	.0	1.3	.0	.0	.0	70.6
NE	17.8	8.5	4.1	.0	19.0	.0	.2	43.1	5.4	.0	3.9	.0	.0	.0	47.7
E	10.3	6.1	6.1	.0	8.9	.0	.0	27.1	5.1	.0	6.5	.0	.0	.0	61.2
SE	18.3	4.9	9.1	.0	6.1	.0	.0	35.0	1.1	.0	10.3	.0	.0	.0	53.6
S	17.3	3.0	7.7	.0	1.8	.0	.0	24.2	3.6	.0	8.9	.0	.0	.0	63.2
SW	8.4	1.3	4.1	.0	5.7	.0	.0	17.7	2.9	.0	12.5	.0	.0	.0	66.8
W	4.0	.2	.6	.0	6.8	.0	.0	10.7	2.1	.5	.5	.0	.5	.0	85.8
NW	5.0	.7	3.7	.0	5.9	.0	.0	14.6	3.4	.0	2.5	.0	.0	.0	79.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	12.5	.0	12.5	.0	62.5
TOT PCT	8.5	2.5	4.0	.0	7.7	.0	.1	20.9	3.7	.1	5.7	.0	.2	.0	69.5
TOT OBS:	1041														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL PCPN	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WFA
00003	10.4	3.0	2.2	.0	10.4	.0	.0	25.4	3.4	.0	5.6	.0	.0	.0	65.7
06009	9.6	3.2	5.0	.0	4.1	.0	.0	18.7	2.7	.0	5.9	.0	.0	.0	72.6
12015	7.2	1.6	4.6	.0	6.3	.0	.0	17.8	3.6	.3	8.2	.0	.3	.0	69.7
18021	7.5	2.1	4.3	.0	8.9	.0	.4	21.4	4.6	.0	5.7	.0	.4	.0	67.9
TOT PCT	8.6	2.4	4.0	.0	7.6	.0	.1	20.8	3.6	.1	6.4	.0	.2	.0	68.8
TOT OBS:	1071														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	3.0	5.1	2.6	.8	.2		12.0	17.3		10.6	11.7	6.2	21.3	13.8	15.6	11.2	10.7
NE	.3	2.2	4.0	1.9	1.5	.1		10.0	19.1		8.3	10.2	7.7	9.8	13.1	9.6	12.1	6.5
E	.4	1.8	1.8	.9	.1	.0		5.0	14.0		3.9	10.5	6.7	4.4	3.7	4.7	3.6	6.5
SE	.7	1.9	3.0	.9	.2	.0		6.1	15.1		7.3	8.3	6.7	2.0	5.3	5.5	6.2	6.0
S	.7	2.6	5.8	2.0	.7	.0		11.3	17.1		11.3	8.6	10.7	9.8	12.6	9.4	10.9	15.4
SW	.6	6.0	9.1	4.6	1.0	.0		21.3	16.3		23.7	22.8	18.6	19.9	14.4	23.7	26.2	24.2
W	.5	5.4	9.2	4.2	.9	.1		20.3	16.3		20.0	16.4	22.3	16.2	20.6	27.9	20.0	21.1
NW	.9	4.4	4.8	2.5	.6	.1		13.3	15.2		14.1	11.4	19.6	15.2	14.8	8.6	10.0	9.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0		1.0	.0	1.3	1.4	1.8	.0	.0	.0
TOT OBS	47	306	480	221	65	5	1124		16.3		206	81	149	74	227	96	195	96
TOT PCT	4.2	27.2	42.7	19.7	5.8	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.6	4.8	3.9	1.3	.5				10.9	11.2	14.3	11.0
NE	.9	4.6	2.3	1.6	.7				8.8	8.4	12.1	10.2
E	.8	2.5	1.3	.3	.0				5.7	5.9	4.0	4.6
SE	.5	3.2	1.9	.4	.0				7.6	5.2	5.3	6.1
S	.9	4.7	4.4	1.2	.0				10.5	10.4	11.6	12.4
SW	1.7	10.6	6.3	2.7	.0				23.4	19.1	17.2	25.5
W	2.3	9.4	5.8	2.5	.2				19.0	20.3	21.3	20.4
NW	2.2	6.1	3.4	1.5	.1				13.3	18.2	12.9	9.9
VAR	.0	.0	.0	.0	.0				.0	.0	.0	.0
CALM	.8								.7	1.3	1.2	.0
TOT OBS	132	515	330	131	16	1124		16.3	287	223	323	291
TOT PCT	11.7	45.8	29.4	11.7	1.4				100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	.7	4.9	24.4	42.5	20.2	6.6	.7	16.6	100.0	287
06009	1.3	2.2	30.0	43.0	17.9	4.9	.4	16.0	100.0	223
12015	1.2	3.1	27.9	40.9	20.1	6.2	.6	16.4	100.0	323
18021	.0	3.1	27.1	44.7	19.9	5.2	.0	16.3	100.0	291
TOT	9	38	306	480	221	65	5	16.3		1124
PCT	.8	3.4	27.2	42.7	19.7	5.8	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	.7	3.4	6.4	6.4	6.4
NE	.6	.8	1.7	5.6	6.8	6.8
E	.2	.3	.6	4.3	7.4	7.4
SE	.2	.2	.8	5.7	7.5	7.5
S	.4	.4	2.9	9.4	7.3	7.3
SW	3.3	1.5	4.5	9.7	6.0	6.0
W	8.2	2.8	4.1	6.1	4.3	4.3
NW	3.0	1.2	3.7	5.4	5.6	5.6
VAR	.0	.0	.0	.0	.0	.0
CALM	.2	.0	.0	.6	6.8	6.8
TOT OBS	112	51	141	346	649	6.1
TOT PCT	17.3	7.9	21.7	53.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/R)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	149	299	599	999	1999	3499	4999	6499	7999			
NE	.3	.0	.5	1.6	3.4	1.7	.6	.2	.0	.2	3.4	
E	.0	.2	.2	1.5	2.6	1.1	.3	.2	.0	.2	2.5	
SE	.0	.1	.6	1.4	1.1	1.1	.0	.0	.0	.0	1.0	
S	.3	.0	.2	.1	1.9	2.1	.7	.1	.0	.2	1.2	
SW	.7	.0	.2	.9	3.0	2.5	.5	.1	.3	.8	4.2	
W	1.4	.2	.3	.9	4.2	2.5	1.2	.2	.2	.3	7.6	
NW	.7	.2	.0	1.4	3.8	1.0	.3	.0	.0	.3	13.2	
VAR	.6	.0	.3	1.7	2.6	1.2	.8	.0	.0	.0	6.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	27	3	12	56	149	88	36	6	4	13	255	649
TOT PCT	4.2	.5	1.8	8.6	23.0	13.6	5.5	.9	.6	2.0	39.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/R) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	1.4	2.4	2.6	2.6	2.6	2.6	2.6	2.6
>4000	1.8	3.3	3.5	3.5	3.5	3.5	3.5	3.5
>3500	4.7	8.5	8.8	8.9	8.9	8.9	8.9	8.9
>3000	11.6	20.7	21.8	22.5	22.5	22.5	22.5	22.5
>2500	25.2	40.2	43.7	45.0	45.2	45.2	45.2	45.2
>2000	28.9	46.5	51.5	53.9	54.1	54.1	54.1	54.1
>1500	29.6	47.6	52.7	55.3	55.7	55.7	55.9	55.9
>1000	29.6	47.7	52.9	55.6	56.2	56.2	56.3	56.3
>500	29.6	48.2	54.4	57.4	58.6	59.5	60.9	61.0
>0	29.6	48.2	54.4	57.4	58.6	59.5	60.9	61.0
TOTAL	196	319	360	380	388	394	403	404

TOTAL NUMBER OF OBS: 662

PCT FREQ NH <5/8: 39.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	10.7	8.2	9.0	5.9	4.8	5.1	5.7	8.1	38.9	3.7	731

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	*	.0	.0	.0	.2	.2	.4	.0	.0	1.0	
	NO PCP	*	.0	.0	.3	.1	1.0	.1	.1	.0	.1	1.8	
	TOT %	.1	*	.0	.3	.1	1.3	.3	.5	.0	.1	2.8	
1/2<1	PCP	.2	.6	.3	.3	.2	.4	.1	.2	.0	.0	2.3	
	NO PCP	*	.1	.2	.3	.5	.8	.1	.3	.0	.1	2.5	
	TOT %	.2	.8	.5	.6	.7	1.2	.3	.5	.0	.1	4.8	
1<2	PCP	.5	.6	.2	*	.4	.3	.3	.2	.0	.0	2.4	
	NO PCP	.0	.1	.0	.0	.0	.3	.1	.2	.0	.0	.7	
	TOT %	.5	.7	.2	*	.4	.6	.4	.4	.0	.0	3.1	
2<5	PCP	.5	1.3	.4	.3	.5	.7	.3	.4	.0	.0	4.4	
	NO PCP	.1	.3	.1	.1	.7	.7	.2	.0	.0	.0	2.2	
	TOT %	.6	1.6	.5	.4	1.2	1.4	.5	.4	.0	.0	6.6	
5<10	PCP	.5	1.4	.5	1.5	1.4	1.8	1.0	.6	.0	.0	8.9	
	NO PCP	1.0	2.1	1.3	1.7	3.2	4.1	5.5	3.8	.0	.3	24.8	
	TOT %	1.5	3.5	1.9	3.2	4.6	5.9	6.5	4.3	.0	.3	33.7	
10+	PCP	.7	.3	.0	.1	.4	.1	.2	.2	.0	.0	2.0	
	NO PCP	5.7	3.0	2.1	1.7	4.4	10.0	12.6	7.2	.0	.3	47.0	
	TOT %	6.3	3.3	2.1	1.8	4.8	10.1	12.8	7.5	.0	.3	49.0	
TOT OBS													1039
TOT PCT		11.2	9.9	5.1	6.3	11.8	20.4	20.9	13.5	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.1	.1	.3	.0	.1	.7	
	4-10	*	.0	.0	.1	.1	.4	.2	*	.0		.8	
	11-21	.0	.0	.0	.1	.0	.4	*	.0	.0		.6	
	22+	.1	*	.0	*	.1	.4	.1	.1	.0		.7	
	TOT %	.1	*	.0	.3	.1	1.3	.4	.5	.0	.1	2.9	
1/2<1	0-3	*	.0	.0	.0	.1	.0	.0	.2	.0	.1	.5	
	4-10	.0	.0	.2	.2	.0	.6	.0	.2	.0		1.3	
	11-21	.2	.3	.2	.2	.4	.3	.2	*	.0		1.8	
	22+	.0	.5	.1	.1	.2	.2	.1	.0	.0		1.1	
	TOT %	.2	.7	.5	.5	.6	1.1	.3	.5	.0	.1	4.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.1	.1	.1	.1	.2	.1	.2	.0		1.0	
	11-21	.1	.2	.0	.0	.1	.3	.2	.1	.0		.9	
	22+	.2	.4	.1	.0	.2	.1	.1	*	.0		1.1	
	TOT %	.4	.7	.2	.1	.4	.5	.4	.3	.0	.0	3.0	
2<5	0-3	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	4-10	.3	.3	.1	.1	.2	.3	.1	.2	.0		1.6	
	11-21	.0	.4	.2	.1	.4	.7	.3	*	.0		2.1	
	22+	.2	.7	.2	.2	.6	.6	.1	.2	.0		2.9	
	TOT %	.6	1.5	.5	.4	1.2	1.6	.5	.4	.0	.0	6.7	
5<10	0-3	*	*	.1	.1	.1	.2	.2	.3	.0	.3	1.3	
	4-10	.9	.8	.4	.6	1.1	1.7	1.9	1.5	.0		8.8	
	11-21	1.7	1.5	.8	1.8	2.6	2.6	2.3	1.3	.0		14.7	
	22+	.7	1.0	.4	.6	.7	1.7	1.9	1.1	.0		8.1	
	TOT %	3.3	3.4	1.8	3.1	4.5	6.2	6.2	4.1	.0	.3	32.9	
10+	0-3	.2	.1	.3	.0	.0	.2	.2	.1	.0	.3	1.4	
	4-10	1.2	1.0	1.0	.7	1.1	2.7	3.3	2.2	.0		13.4	
	11-21	2.8	1.4	.6	.9	2.5	5.0	6.3	3.4	.0		22.8	
	22+	2.4	1.1	.3	.1	1.1	2.5	3.1	1.8	.0		12.4	
	TOT %	6.6	3.6	2.1	1.7	4.7	10.4	12.9	7.5	.0	.3	49.9	
TOT OBS													1085
TOT PCT		11.3	9.9	5.1	6.2	11.5	21.2	20.7	13.3	.0	.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH $\geq 4/8$ AND
OCCURRENCE OF NH $< 5/8$ BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	3.9	.7	2.0	9.2	17.1	21.7	7.2	.7	.7	2.0	65.1	34.9	152
06009	1.4	.0	.7	4.3	20.6	14.2	8.5	2.1	.0	2.1	53.9	46.1	141
12015	5.7	.0	2.6	8.2	24.7	7.7	3.1	.0	.5	1.5	54.1	45.9	194
18021	6.0	1.0	1.5	11.4	24.4	10.9	3.5	1.0	1.0	2.0	62.7	37.3	201
TOT	31	3	12	59	152	90	36	6	4	13	406	282	688
PCT	4.5	.4	1.7	8.6	22.1	13.1	5.2	.9	.6	1.9	59.0	41.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	$< 1/2$	$1/2 < 1$	$1 < 2$	$2 < 5$	$5 < 10$	$10 < 20$	TOTAL OBS
00003	4.5	3.8	3.1	5.6	36.0	46.9	286
06009	1.8	3.1	2.2	7.6	30.9	54.3	223
12015	5.1	5.7	2.2	8.6	34.6	43.8	315
18021	2.1	5.2	4.5	5.5	29.3	53.4	290
TOT	39	51	34	76	366	548	1114
PCT	3.5	4.6	3.1	6.8	32.9	49.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET) NH $\geq 4/8$ BY HOUR

HOUR (GMT)	< 150 < 500	$150 < 600$ $600 < 1000$	$1000 < 1500$ $1500 < 2000$	$2000 < 2500$ $2500 < 3000$	NH $< 5/8$ AND 5+	TOTAL OBS
00003	4.2	8.4	23.1	47.6	29.4	143
06009	1.5	2.2	11.7	43.8	44.5	137
12015	5.9	9.2	27.6	31.9	40.5	185
18021	6.1	9.1	23.9	40.1	36.0	197
TOT	31	50	147	266	249	662
PCT	4.7	7.6	22.2	40.2	37.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	.0	1.6	1.0	18	2.6
45/49	.0	.0	.0	.0	.1	1.0	1.5	3.4	41	6.0
40/44	.0	.0	.0	.4	.7	3.4	6.4	9.6	141	20.6
35/39	.0	.1	.1	.3	2.8	5.0	9.6	14.9	225	32.8
30/34	.0	.0	.0	1.0	2.0	4.4	6.7	9.0	159	23.2
25/29	.0	.0	.0	.7	1.6	2.8	1.6	2.3	62	9.0
20/24	.0	.0	.0	.0	.3	1.2	1.3	2.2	34	5.0
15/19	.0	.0	.0	.0	.1	.1	.3	.3	6	.9
TOTAL	0	1	1	17	53	122	199	293	686	100.0
PCT	.0	.1	.1	2.5	7.7	17.8	29.0	42.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	1.3	.5	.6	.0	.0	.0	.1
.3	.0	.3	.4	2.3	2.0	.3	.3	.0	.1
1.3	1.4	1.4	1.8	4.3	5.4	3.2	1.6	.0	.1
5.4	3.8	2.3	2.5	3.5	6.0	5.3	3.6	.0	.4
3.0	2.8	1.7	.7	2.0	3.1	5.9	3.8	.0	.1
1.6	.2	.0	.3	1.0	3.2	2.7	.0	.0	.0
.8	.0	.0	.0	.0	.4	2.6	1.1	.0	.0
.1	.0	.0	.0	.0	.1	.3	.3	.0	.0
12.5	6.2	5.7	6.8	13.0	18.7	20.7	13.4	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	52	51	46	36	25	20	19	35.8	299
06009	52	50	45	35	24	19	18	35.4	230
12015	52	51	46	36	23	19	18	35.3	329
18021	52	50	47	37	26	21	19	36.8	295
TOT	52	50	46	36	24	19	18	35.8	1153

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.7	7.9	18.1	27.1	45.2	86	177		
06009	.0	3.5	6.3	16.2	28.2	45.8	86	142		
12015	.0	2.6	9.5	16.3	26.3	45.3	85	190		
18021	.0	3.0	6.6	18.8	33.5	38.1	84	197		
TOT	0	19	54	123	204	306	85	706		

NOVEMBER

PERIOD: (PRIMARY) 1928-1970
(OVER-ALL) 1869-1970

TABLE 17

AREA 0001 HELLE ISLE STRAIT
50.8N 57.1W

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.2	2	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.2	.6	7	.1	.7
9/10	.0	.0	.0	.0	.0	.0	.1	.3	.7	10	.0	1.1
7/8	.0	.0	.0	.0	.0	.0	1.2	.6	.5	20	.5	1.8
6	.0	.0	.0	.0	.0	.3	1.4	.7	.3	24	.1	2.6
5	.0	.0	.0	.0	.1	1.1	.7	.6	.0	22	.8	1.7
4	.0	.0	.0	.1	.2	1.7	1.2	.6	.1	35	.6	3.4
3	.0	.0	.0	.0	.9	2.8	1.0	.8	.1	50	.9	4.8
2	.0	.0	.0	.0	1.6	2.6	1.9	.8	.0	61	.8	6.1
1	.0	.0	.0	.1	2.7	2.9	1.2	.5	.0	66	1.0	6.5
0	.0	.0	.0	.6	2.8	2.9	1.1	.2	.0	68	.3	7.4
-1	.0	.0	.0	.1	3.7	2.7	.7	.0	.0	59	.5	6.2
-2	.0	.0	.0	.7	2.3	1.9	.8	.0	.0	50	.0	5.7
-3	.0	.0	.1	2.0	2.3	1.1	1.0	.0	.0	58	.2	6.3
-4	.0	.0	.2	1.7	2.0	1.4	.8	.1	.0	55	.0	6.2
-5	.0	.1	1.1	2.2	2.8	1.4	.2	.0	.0	71	.2	7.8
-6	.0	.2	.7	1.0	1.8	.9	.7	.0	.0	47	.0	5.3
-7/-8	.0	.3	1.7	1.7	3.2	1.1	.0	.0	.0	71	.2	7.8
-9/-10	.3	1.0	1.0	1.8	1.2	.3	.0	.0	.0	51	.1	5.7
-11/-13	.3	1.4	1.2	.7	.5	.0	.0	.0	.0	36	.0	4.1
-14/-16	.7	.8	.2	.0	.0	.0	.0	.0	.0	15	.0	1.7
-17/-19	.2	.2	.0	.0	.0	.0	.0	.0	.0	4	.0	.5
-20/-22	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	15	36	56	112	249	221	125	47	22	883	56	827
PCT	1.7	4.1	6.3	12.7	28.2	25.0	14.2	5.3	2.5	100.0	6.3	93.7

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.3	.0	.0	.0	.9	.3	.3	.0	.0	.0	.0	1.0
1-2	.0	1.7	1.8	.0	.0	.0	3.6	.0	1.9	.9	.0	.0	.0	2.8
3-4	.0	.7	1.9	2.4	.0	.0	5.0	.0	.0	1.0	.7	.0	.0	1.7
5-6	.0	.3	.0	1.0	.3	.0	1.6	.0	.0	.7	.7	.1	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.7
8-9	.0	.0	.0	1.2	.6	.0	1.8	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.3	.0	.0	.3	.0	.5	.0	.1	.0	.0	.0	.0	.1
12	.0	.0	.0	.3	.0	.3	.7	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.7	4.0	4.9	1.5	.3	14.4	.3	2.4	2.9	1.8	.4	.0	7.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.3	.3	.3	.0	.0	.0	1.0
1-2	.0	.3	.0	.0	.0	.0	.3	.0	.5	.3	.0	.0	.0	.9
3-4	.0	.0	.0	.7	.0	.0	.7	.0	.0	2.0	.3	.0	.0	2.4
5-6	.0	.0	.3	.3	.3	.0	1.0	.0	.0	.1	.5	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.3	1.0	.3	.0	1.9	.3	.9	2.9	1.7	.0	.0	5.8

PERIOD: (OVER-ALL) 1963-1970

NOVEMBER
TABLE 18 (CONT)AREA 0001 BELLE ISLE STRAIT
50.8N 57.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.3	.0	.0	.0	.7	.3	1.8	.0	.0	.0	.0	2.2
1-2	.0	2.4	1.7	.0	.0	.0	4.2	.0	1.2	1.5	.0	.0	.0	2.7
3-4	.0	.0	3.3	.0	.0	.0	3.3	.3	.0	4.1	.7	.0	.0	5.1
5-6	.0	.0	.9	1.6	.0	.0	2.4	.0	.5	1.6	.3	.0	.0	2.1
7	.0	.0	.9	2.1	.0	.0	3.0	.0	.4	2.4	.3	.0	.0	3.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.1	.0	.0	.0	1.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.3	.0	1.0	.0	.4	.0	.1	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	7.8	3.7	.3	.0	14.5	.7	3.0	7.3	6.2	.4	.0	17.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.6	.0	.0	.0	.0	2.6	1.4	1.2	.1	.0	.0	.0	2.7	
1-2	.3	3.0	2.0	.0	.0	.0	5.3	.0	2.2	.8	.0	.0	.0	3.0	
3-4	.0	1.0	4.4	.0	.0	.0	5.0	.0	1.1	2.8	.5	.0	.0	4.4	
5-6	.0	.0	2.4	.9	.3	.0	3.6	.0	.0	.7	1.2	.7	.0	2.6	
7	.0	.0	.7	1.2	.0	.0	1.9	.0	.0	.0	.4	.3	.0	1.0	
8-9	.0	.0	.3	1.0	.3	.0	1.7	.0	.0	.0	.4	.4	.0	.9	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.3	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	6.5	10.2	3.7	1.0	.0	21.7	1.4	4.5	4.4	3.2	1.6	.0	15.1	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.5	7.3	1.4	.0	.0	.0	12.2	
1-2	.3	13.5	9.0	.0	.0	.0	22.9	
3-4	.3	2.8	19.4	5.9	.0	.0	28.5	
5-6	.0	.3	5.6	7.4	1.7	.0	15.2	
7	.0	.0	2.1	7.3	1.0	.0	10.4	
8-9	.0	.0	.7	4.2	1.4	.0	6.3	
10-11	.0	.3	.0	.3	.3	.0	1.0	
12	.0	.0	.0	.7	.0	.3	1.0	
13-16	.0	.0	1.4	.0	1.0	.0	2.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.2	24.3	39.6	26.0	5.6	.3	100.0	288

PERIOD: (OVER-ALL) 1950-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.5	14.1	19.4	7.6	3.2	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	207	3
6-7	.0	.7	4.6	4.6	2.8	3.2	1.2	.3	.9	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	83	7
8-9	.0	.0	1.2	.9	2.8	1.6	.9	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	7
10-11	.0	.2	.5	.2	.7	.9	.5	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	8
12-13	.0	.0	.2	.0	.2	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
>13	.0	.0	.0	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	4
INDET	4.8	4.1	3.5	2.5	2.1	1.4	.0	.0	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	434	5
TOTAL	32	83	127	69	52	35	13	3	13	4	1	0	0	0	0	0	0	0	0	100.0	
PCT	7.4	19.1	29.3	15.9	12.0	8.1	3.0	1.2	3.0	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WFA
N	1.9	.0	.0	.0	15.7	.0	.0	15.7	.0	.0	.0	.0	.0	.0	84.3
NE	.5	.0	3.7	.0	20.4	1.9	.5	26.9	.0	.0	3.7	.0	.0	.0	69.4
E	17.8	.0	3.1	.0	13.2	6.2	2.3	39.5	3.1	.0	6.2	.0	.0	.0	51.2
SE	18.8	6.3	.0	.0	14.1	.0	6.3	39.1	6.3	.0	7.8	.0	.0	.0	46.9
S	15.2	5.3	.0	.0	12.6	.0	.0	30.5	1.3	.0	9.3	.0	.0	.0	58.9
SW	3.6	.0	1.6	.0	11.9	.0	1.6	18.6	4.0	.0	4.7	.0	.0	.0	72.7
W	.0	.0	.0	.0	11.9	1.6	.0	13.5	1.6	.0	6.7	.0	.0	.0	78.2
NW	1.3	.0	.0	.0	12.8	.0	.0	14.1	2.7	.0	2.7	.0	.0	.0	80.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.1	.0	.0	.0	9.1	.0	.0	18.2	.0	.0	45.5	.0	.0	.0	36.4
TOT PCT	5.0	.7	1.0	.0	13.0	1.0	.7	21.3	2.0	.0	5.7	.0	.0	.0	71.6
TOT OBS:	404														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WFA	
00003	7.1	.0	.0	.0	17.2	.0	.0	24.2	1.0	.0	4.0	.0	.0	.0	70.7	
06009	3.6	2.4	1.2	.0	12.0	2.4	.0	20.5	.0	.0	6.0	.0	.0	.0	73.5	
12015	4.7	.8	1.6	.0	14.1	1.6	.8	21.9	2.3	.0	7.0	.0	.0	.0	68.8	
18021	3.8	.0	1.0	.0	13.3	.0	1.9	19.0	3.8	.0	4.8	.0	.0	.0	72.4	
TOT PCT	4.8	.7	1.0	.0	14.2	1.0	.7	21.4	1.9	.0	5.5	.0	.0	.0	71.1	
TOT OBS:	415															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.6	3.6	4.8	2.7	.5	.0		13.2	14.6	15.6	.0	11.7	25.0	10.0	19.0	13.7	18.2	
NE	.8	3.4	4.5	3.1	.2	.0		13.0	15.2	11.4	20.0	17.7	25.0	10.8	20.0	9.9	9.1	
E	.0	2.0	3.6	1.2	.7	.2		7.8	18.0	6.9	.0	10.0	7.5	13.0	3.0	4.3	.0	
SE	.0	.3	2.1	1.2	.2	.0		3.9	19.8	4.7	.0	1.7	.0	3.5	2.0	7.0	.0	
S	.2	1.7	3.9	3.3	.2	.0		9.4	18.7	11.4	20.0	14.7	10.0	5.8	7.0	6.5	9.1	
SW	.8	4.0	4.7	4.7	.6	.0		15.8	17.2	16.4	2.5	14.3	.0	19.0	12.0	18.0	9.1	
W	.4	6.0	6.0	2.4	.8	.0		15.6	15.6	17.2	17.5	12.7	.0	16.3	3.0	18.3	36.4	
NW	.2	5.5	8.0	4.3	.5	.0		18.6	16.1	14.2	40.0	14.7	22.5	19.8	30.0	19.1	18.2	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.7							2.7	.0	2.2	.0	2.7	10.0	2.0	4.0	3.2	.0	
TOT OBS	28	110	164	95	16	1	414		16.0	90	10	75	10	100	25	93	11	
TOT PCT	6.8	26.6	39.6	23.9	3.9	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	2.9	6.0	2.3	2.0	.0		13.2	14.6	14.0	13.2	11.8	14.2	
NE	2.2	5.2	4.8	.8	.0		13.0	15.2	12.3	18.5	12.6	9.9	
E	1.2	3.1	1.9	1.1	.5		7.8	18.0	6.3	9.7	11.0	3.8	
SE	.2	1.3	1.6	.7	.0		3.9	19.8	4.3	1.5	3.2	6.3	
S	.8	2.8	4.6	1.1	.0		9.4	18.7	12.3	14.1	6.0	6.7	
SW	2.2	5.6	6.2	1.8	.1		15.8	17.2	15.0	12.6	17.6	17.1	
W	2.1	7.1	5.3	1.1	.2		15.6	15.6	17.3	11.2	13.6	20.2	
NW	1.4	9.2	6.2	1.8	.0		18.6	16.1	16.8	15.6	21.8	19.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.7						2.7	.0	2.0	3.5	2.4	2.9	
TOT OBS	65	167	136	43	3	414		16.0	100	85	125	104	
TOT PCT	15.7	40.3	32.9	10.4	.7		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.0	4.0	27.0	44.0	20.0	3.0	.0	15.2	100.0	100
06009	3.5	1.2	27.1	45.9	20.0	1.2	1.2	15.5	100.0	85
12015	2.4	8.0	24.0	39.2	20.8	5.6	.0	16.2	100.0	125
18021	2.9	1.9	28.8	30.8	30.8	4.8	.0	17.0	100.0	104
TOT	11	17	110	164	95	16	1	16.0		414
PCT	2.7	4.1	26.6	39.6	22.9	3.9	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.2	1.1	3.9	4.3		5.2
NE	2.4	.6	2.2	6.9		6.1
E	.8	.0	1.8	5.9		7.0
SE	.2	.1	.5	3.6		7.5
S	.5	.8	.6	6.9		7.1
SW	4.9	.8	1.5	9.2		5.4
W	3.4	2.0	5.0	4.7		5.3
NW	6.3	2.7	5.3	6.2		5.0
VAR	.0	.0	.0	.0		.0
CALM	.3	.0	.3	1.2		6.5
TOT OBS	73	27	70	163	333	5.7
TOT PCT	21.9	8.1	21.0	48.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.3	.0	.5	.0	1.8	2.6	.2	.3	.8	.3	5.9	
NE	.9	.9	1.1	1.3	2.6	1.8	.4	.1	.2	.7	3.4	
E	.3	.3	1.2	2.0	1.4	.3	.2	.2	.0	.2	2.5	
SE	.7	.9	.3	.3	1.0	1.2	.0	.0	.0	.0	.5	
S	1.4	.5	.3	.0	3.0	1.2	.0	.0	.2	.3	2.0	
SW	.8	.4	.4	1.4	3.8	2.1	.3	.0	.2	.0	7.1	
W	1.1	.0	.5	1.4	2.9	2.0	.0	.0	.5	.0	6.5	
NW	.0	.0	.0	1.7	3.6	2.9	.8	.0	.0	1.2	10.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.6	.0	.0	.0	.6	.0	.0	.0	.3	.0	.3	
TOT OBS	20	6	14	27	69	47	6	2	7	7	128	333
TOT PCT	6.0	1.8	4.2	8.1	20.7	14.1	1.8	.6	2.1	2.1	38.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= NR >10	= OR >5	= OR >2	= NR >1	= OR >1/2	= OR >1/4	= NR >50YD	= OR >0
= NR >6500	3.0	4.2	4.2	4.2	4.2	4.2	4.2	4.2
= NR >4000	3.6	4.7	4.7	4.7	4.7	4.7	4.7	4.7
= NR >3500	5.3	6.5	6.5	6.5	6.5	6.5	6.5	6.5
= NR >2000	14.5	19.6	20.5	20.5	20.8	20.8	20.8	20.8
= NR >1000	26.1	35.9	40.4	40.9	41.8	41.8	41.8	41.8
= NR >600	29.4	42.7	48.7	49.6	50.4	50.4	50.4	50.4
= NR >300	30.3	43.9	50.7	52.5	54.0	54.0	54.9	54.9
= NR >150	30.3	43.9	51.3	53.7	55.5	55.8	56.7	56.7
= NR >0	30.6	44.2	52.8	56.1	58.2	60.2	62.6	62.6
TOTAL	103	149	178	189	196	203	211	211

TOTAL NUMBER OF OBS: 337

PCT FREQ NH <5/8: 37.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	11.7	7.0	9.5	5.0	3.6	3.1	5.6	10.3	39.3	359

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.5	.6	.2	.6	.2	.0	.2	.0	.0	.0	2.2	
	NO PCP	.0	.2	.0	.0	.4	.2	.9	.0	.0	.0	.7	2.5
	TOT %	.5	.8	.2	.6	.6	.2	1.1	.0	.0	.0	.7	4.7
1/2<1	PCP	.0	.5	.5	.0	.0	.2	.0	.0	.0	.0	1.2	
	NO PCP	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.5	
	TOT %	.0	.5	.7	.0	.0	.2	.0	.2	.0	.0	1.7	
1<2	PCP	.0	.4	.6	.6	.6	.3	.0	.2	.0	.0	2.7	
	NO PCP	.0	.2	.0	.0	.0	.3	.2	.2	.0	.0	1.0	
	TOT %	.0	.6	.6	.6	.6	.6	.2	.5	.0	.0	3.7	
2<5	PCP	.4	.9	1.2	.1	1.5	.4	.9	1.3	.0	.5	7.4	
	NO PCP	.4	.1	.0	.3	.7	.2	.5	.5	.0	.5	3.2	
	TOT %	.8	1.0	1.2	.4	2.2	.6	1.4	1.8	.0	1.0	10.6	
5<10	PCP	.4	1.0	.2	.2	.5	1.8	.9	1.0	.0	.0	6.2	
	NO PCP	2.2	1.7	.5	.9	1.2	3.0	.8	2.6	.0	.0	12.8	
	TOT %	2.6	2.7	.7	1.1	1.7	4.8	1.7	3.6	.0	.0	19.0	
10+	PCP	.7	.2	.4	.1	.2	.0	.0	.0	.0	.0	1.7	
	NO PCP	8.3	7.5	4.1	1.2	4.1	9.0	11.1	12.2	.0	1.0	58.5	
	TOT %	9.1	7.8	4.5	1.3	4.4	9.0	11.1	12.2	.0	1.0	60.2	
TOT OBS													405
TOT PCT		13.0	13.3	8.0	4.0	9.6	15.6	15.6	18.3	.0	2.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.7	1.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.2	.0	.0	.4	.1	.0	.0	.0	.0	.7	.7
	22+	.5	.6	.2	.6	.2	.1	.9	.0	.0	.0	2.9	2.9
	TOT %	.5	.8	.2	.6	.6	.2	1.1	.0	.0	.0	.7	4.7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.7	.7
	22+	.0	.0	.5	.0	.0	.2	.0	.2	.0	.0	1.0	1.0
	TOT %	.0	.5	.7	.0	.0	.2	.0	.2	.0	.0	1.7	1.7
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.2	.0	.3	.2	.3	.2	.0	.0	.0	1.2	1.2
	22+	.0	.4	.6	.2	.4	.3	.0	.5	.0	.0	2.5	2.5
	TOT %	.0	.6	.6	.6	.6	.6	.2	.5	.0	.0	3.7	3.7
2<5	0-3	.2	.0	.0	.0	.0	.2	.0	.0	.0	1.0	1.5	1.5
	4-10	.2	.1	.5	.1	.2	.2	.4	.6	.0	.0	2.2	2.2
	11-21	.2	.6	.4	.2	.7	.2	.7	.5	.0	.0	3.7	3.7
	22+	.4	.4	.2	.1	1.3	.1	.2	.7	.0	.0	3.4	3.4
	TOT %	1.0	1.0	1.2	.4	2.2	.8	1.4	1.8	.0	1.0	10.8	10.8
5<10	0-3	.7	.3	.0	.0	.0	.6	.2	.0	.0	.0	1.7	1.7
	4-10	.5	1.0	.1	.1	.0	.6	.6	1.1	.0	.0	3.9	3.9
	11-21	.7	.6	.4	.5	.7	1.2	.7	2.0	.0	.0	6.9	6.9
	22+	.8	.7	.2	.5	1.0	2.5	.2	.7	.0	.0	6.6	6.6
	TOT %	2.7	2.6	.7	1.1	1.7	4.8	1.7	3.7	.0	.0	19.1	19.1
10+	0-3	.7	.5	.0	.0	.2	.0	.0	.2	.0	1.0	2.7	2.7
	4-10	3.0	2.5	1.4	.1	1.5	3.0	4.9	3.7	.0	.0	20.1	20.1
	11-21	3.7	3.4	2.6	1.1	1.8	3.9	4.4	5.4	.0	.0	26.5	26.5
	22+	1.5	1.3	.4	.1	.7	2.2	1.7	2.8	.0	.0	10.8	10.8
	TOT %	9.0	7.7	4.5	1.3	4.4	9.1	11.0	12.1	.0	1.0	60.0	60.0
TOT OBS													408
TOT PCT		13.2	13.2	7.9	3.9	9.5	15.7	15.4	18.3	.0	2.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH $\geq 4/8$) AND
OCCURRENCE OF NH $\leq 5/8$ BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH $\leq 5/8$ ANY HGT	TOTAL OBS
00003	3.8	.0	3.8	3.8	24.1	13.9	.0	1.3	5.1	1.3	57.0	43.0	79
06009	16.7	.0	3.0	6.1	15.2	12.1	1.5	.0	3.0	3.0	60.6	39.4	66
12015	2.9	2.9	5.8	14.6	18.4	14.6	1.0	.0	.0	1.9	62.1	37.9	103
18021	3.2	3.2	4.2	7.4	24.2	14.7	4.2	1.1	1.1	2.1	65.3	34.7	95
TOT	20	6	15	29	71	48	6	2	7	7	211	132	343
PCT	5.8	1.7	4.4	8.5	20.7	14.0	1.7	.6	2.0	2.0	61.5	38.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	$<1/2$	$1/2 < 1$	$1 < 2$	$2 < 5$	$5 < 10$	$10+$	TOTAL OBS
00003	2.0	3.0	2.0	9.9	23.8	59.4	101
06009	6.0	2.4	2.4	11.9	14.3	63.1	84
12015	4.7	.8	6.2	12.4	22.5	53.5	129
18021	5.7	.9	2.8	9.4	16.0	65.1	106
TOT	19	7	15	46	82	251	420
PCT	4.5	1.7	3.6	11.0	19.5	59.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH $\geq 4/8$) BY HOUR

HOUR (GMT)	<150 $<50YD$	<600 <1	<1000 <5	$1000+$ ANY $\geq 4/8$	NH $\leq 5/8$ AND $\geq 4/8$	TOTAL OBS
00003	3.9	10.4	19.5	39.0	41.6	77
06009	17.2	21.9	31.3	32.8	35.9	64
12015	3.0	11.9	33.7	29.7	36.6	101
18021	3.2	10.5	24.2	42.1	33.7	95
TOT	20	44	92	121	124	337
PCT	5.9	13.1	27.3	35.9	36.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.4	.0	.0	.4	2	.7
40/44	.0	.0	.0	.0	.0	.4	3.5	2.5	18	6.3
35/39	.0	.4	.0	.0	1.9	4.2	6.3	8.4	60	21.1
30/34	.0	.0	.0	.0	2.5	3.9	5.3	13.0	70	24.6
25/29	.0	.0	.4	.0	2.5	3.9	6.0	6.0	33	18.6
20/24	.0	.0	.4	.7	1.4	2.5	7.0	3.9	45	15.8
15/19	.0	.0	.0	.4	1.8	1.8	2.1	2.5	24	8.4
10/14	.0	.0	.0	.0	.0	.7	1.8	1.1	10	3.5
5/9	.0	.0	.0	.0	.4	.0	.0	.7	3	1.1
TOTAL	0	1	2	3	30	49	91	109	285	100.0
PCT	.0	.4	.7	1.1	10.5	17.2	31.9	38.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
45/49	.0	.0	.0	.4	.2	.2	.0	.0	.0	.0
40/44	.0	.7	.7	.4	1.8	2.4	.3	.1	.0	.0
35/39	1.6	2.9	3.6	1.5	3.0	7.3	.5	.4	.0	.4
30/34	2.8	3.6	1.0	1.8	4.3	3.9	2.9	2.8	.0	1.4
25/29	3.0	3.0	2.7	.0	.7	2.5	2.0	4.6	.0	.0
20/24	3.9	1.9	1.7	.3	.0	.4	3.1	4.6	.0	.0
15/19	2.9	.4	.4	.0	.0	.4	1.4	3.0	.0	.0
10/14	.0	.0	.0	.0	.0	.0	1.0	2.5	.0	.0
5/9	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0
TOTAL	14.1	12.5	10.0	4.3	10.0	17.1	11.7	18.5	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	46	45	41	31	15	6	6	29.4	101
06009	49	48	42	30	14	3	3	28.6	85
12015	52	46	42	29	13	9	0	28.1	128
18021	49	46	41	28	14	1	1	28.2	103
TOT	52	46	41	29	14	6	0	28.5	417

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	12.0	18.7	34.7	34.7	84	75
06009	.0	1.8	3.5	12.7	45.5	34.5	85	55
12015	.0	6.6	8.8	19.8	33.0	31.9	83	91
18021	.0	1.3	15.8	15.8	21.1	46.1	85	76
TOT	0	8	32	51	97	109	84	277

DFCEMR

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1931-1970

AREA 000 BELLE ISLE STRAIT
51.0N 57.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	W FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	2	.0	.6
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.9	.0	4	.0	1.2
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.3	.0	3	.3	.6
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.3	.3	.0	4	.0	1.2
6	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	2	.0	.6
5	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.2	1.2	.0	.0	10	.0	2.9
4	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.2	.0	.0	.0	5	.0	1.5
3	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.3	.0	.0	.0	7	.3	1.7
2	.0	.0	.0	.0	.0	.0	.0	.6	2.3	.6	.9	.0	.0	15	.6	3.8
1	.0	.0	.0	.0	.0	.0	.0	1.5	3.2	1.5	.0	.0	.0	21	2.0	4.1
0	.0	.0	.0	.0	.0	.0	.0	.6	2.3	1.5	.0	.0	.0	15	.3	4.1
-1	.0	.0	.0	.0	.0	.0	.3	2.3	1.2	.9	.3	.0	.0	17	.6	4.4
-2	.0	.0	.0	.0	.0	.0	.3	2.6	.9	.6	.0	.0	.0	15	.0	4.4
-3	.0	.0	.0	.0	.0	.0	.6	2.3	1.5	.0	.0	.0	.0	15	.3	4.1
-4	.0	.0	.0	.0	.0	.0	1.7	1.5	.3	.0	.0	.0	.0	12	.0	3.5
-5	.0	.0	.0	.0	.0	.3	1.2	2.0	1.7	.0	.0	.0	.0	18	.0	5.2
-6	.0	.0	.0	.0	.0	.3	2.6	1.5	.6	.9	.0	.0	.0	20	.3	5.5
-7/-8	.0	.0	.0	.0	.0	2.0	3.5	2.0	.3	.0	.0	.0	.0	27	.3	7.6
-9/-10	.0	.0	.0	.3	.3	2.9	2.9	.9	.0	.0	.0	.0	.0	25	.0	7.3
-11/-13	.0	.0	.0	.0	1.5	4.1	3.5	.9	.0	.0	.0	.0	.0	34	.0	9.9
-14/-16	.0	.0	.0	1.7	3.8	2.0	.3	.0	.0	.0	.0	.0	.0	27	.0	7.9
-17/-19	.0	.0	.3	2.6	2.3	.9	.0	.0	.0	.0	.0	.0	.0	21	.0	6.1
-20/-22	.0	.3	.9	1.5	1.2	.0	.3	.0	.0	.0	.0	.0	.0	14	.3	3.8
-23/-25	.0	.0	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	1.2
-26/-30	.9	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.9	.9
TOTAL	3	7	23	32	59	64	33	11	1					343	21	322
PCT	.9	.6	2.0	6.7	9.3	12.5	17.2	18.7	17.2	9.6	3.2	1.7	.3	100.0	6.1	93.9

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.6	.0	.1	.0	.0	.0	.7
1-2	.0	1.7	.0	.0	.0	.0	2.9	.0	.6	1.7	.0	.0	.0	2.3
3-4	.0	.0	1.6	.0	.0	.0	1.6	.0	.6	1.4	1.7	.0	.0	3.8
5-6	.0	.0	.6	.4	.0	.0	1.0	.0	.0	3.0	1.2	.0	.0	4.2
7	.0	.0	.9	1.4	.0	.0	2.3	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	4.2	2.3	.6	.0	9.4	.6	1.2	6.5	3.5	.0	.0	11.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	.6	.0	.0	.0	.6
3-4	.0	.4	2.6	.6	.0	.0	3.6	.0	.1	3.0	.6	.0	.0	3.8
5-6	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.4	.0	.6	.0	1.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	5.6	1.0	.6	.0	10.0	.0	.1	3.9	.9	.0	.0	4.0

PERIOD: (OVER-ALL) 1963-1970

DECEMBER

AREA 0001 BELLE ISLE STRAIT
51.0N 57.0W

TABLE 18 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	.0	.0	.0	.0	.0		.6	.1	1.2	.1	.0	.0	.0		1.4
1-2	.0	.6	.0	.0	.0	.0		.6	.0	1.3	.6	.0	.0	.0		1.9
3-4	.0	.0	3.2	.0	.0	.0		3.2	.0	.0	3.6	.0	.0	.0		3.6
5-6	.0	.0	2.3	1.0	.0	.0		3.3	.0	.6	1.7	.9	.0	.0		3.2
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.6	.6	.1	.0		1.3
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.4	.6	.0	.0		1.0	.0	.0	.0	1.7	.6	.0		2.3
12	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.6	.0	.0		.6
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.7	.6	.0		1.3
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.6	.6	5.9	2.0	.0	.0		9.1	.1	3.0	6.6	4.5	1.3	.0		15.6

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.4	.6	.4	.0	.0	.0		1.4	.0	1.2	.6	.0	.0	.0		1.7	
1-2	.0	3.2	.6	.0	.0	.0		3.8	.0	3.0	2.9	.0	.0	.0		5.9	
3-4	.0	1.2	1.2	1.0	.0	.0		3.3	.0	1.7	5.3	1.9	.0	.0		9.0	
5-6	.0	.0	1.2	.4	.0	.0		1.6	.0	.6	1.2	1.3	.0	.0		3.0	
7	.0	.0	.6	.6	.4	.0		1.6	.0	.0	.7	1.4	.0	.0		2.2	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	1.2	.0	.0		1.2	
10-11	.0	.0	.0	.6	.0	.0		.6	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.0		.1	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.4	4.9	3.9	3.0	.4	.0		12.7	.0	6.5	10.7	5.9	.0	.0		23.1	96.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.2	3.5	2.3	.0	.0	.0	11.0	
1-2	.0	12.7	7.5	.0	.0	.0	20.2	
3-4	.0	4.0	22.0	4.8	.0	.0	31.8	
5-6	.0	1.2	11.6	5.2	.0	.0	17.9	
7	.0	.0	3.5	4.0	1.2	.0	8.7	
8-9	.0	.0	.0	1.7	.0	.0	1.7	
10-11	.0	.0	.6	3.9	.6	.0	4.6	
12	.0	.0	.0	1.2	.0	.0	1.2	
13-16	.0	.0	.0	1.2	1.2	.0	2.3	
17-19	.0	.0	.0	.6	.0	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.2	21.4	47.4	24.1	2.9	.0	100.0	173

PERIOD: (OVER-ALL) 1950-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	11.8	19.8	11.0	5.5	.4	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	120	4
6-7	.0	.8	4.6	5.1	5.5	1.7	1.7	1.3	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	30	6
8-9	.0	.0	1.7	3.0	2.1	.8	3.4	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	7
10-11	.0	.0	.0	.0	.4	.4	.0	.4	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	12
12-13	.0	.0	.8	1.3	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDFT	4.2	1.3	1.7	1.3	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	3
TOTAL	12	33	68	51	25	9	13	7	7	1	0	0	1	0	0	0	0	0	0	237	5
PCT	5.1	13.9	28.7	21.5	14.8	3.8	5.5	3.0	3.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1886-1971
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG BLWG	DUST SNOW	NO SIG WEA
N	5.3	1.3	3.1	*	12.2	.0	.2	21.3	2.0	*	7.5	.2	.3	.0	.0	68.7
NE	8.4	2.4	5.0	.0	13.6	.2	.1	28.1	1.9	.1	12.9	.3	.2	.0	.0	56.5
E	12.8	1.7	4.2	.7	10.3	.5	.3	29.7	2.1	.1	11.5	.2	.3	.0	.0	56.2
SE	15.6	3.1	3.1	.5	5.2	.0	.7	26.9	2.2	.1	13.2	.2	1.5	.1	.0	56.0
S	9.3	2.5	2.1	.3	8.7	.0	*	22.4	2.2	.3	13.3	.6	1.0	.0	.0	60.4
SW	3.7	.8	1.5	.0	12.9	.0	.2	18.9	1.9	.2	12.2	.4	.9	.2	.0	65.4
W	2.3	.6	.5	.1	12.6	1.0	*	17.1	1.5	.2	6.9	*	.4	.4	.0	73.4
NW	2.7	2.0	1.2	.3	14.5	.2	*	20.8	1.6	.0	6.2	.4	*	.3	.0	70.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7	.5	1.5	.0	6.1	.0	.0	11.8	1.2	.0	17.1	.9	1.5	.0	.0	67.4
TOT PCT	5.9	1.4	2.3	.2	11.6	.3	.1	21.3	1.8	.1	10.6	.4	.7	.1	.0	65.0
TOT OBS: 12357																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG	DUST SNOW	NO SIG WEA
0000	6.8	1.5	1.8	.6	14.6	.0	.1	25.0	1.5	.2	9.2	.2	.5	.4	.0	63.1
0600	7.5	1.2	2.8	.0	7.7	.6	*	19.2	1.4	.3	9.9	.1	.2	.0	.0	68.9
1200	9.4	1.0	2.7	.2	10.6	.1	.1	19.8	1.8	.1	13.7	.5	.8	*	.0	63.3
1800	4.9	1.7	1.9	*	11.4	.4	.2	19.9	2.1	*	9.3	.6	.9	*	.0	67.1
TOT PCT	5.8	1.4	2.3	.2	11.7	.3	.1	21.4	1.8	.1	10.8	.4	.6	.1	.0	64.8
TOT OBS: 13057																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	3.4	4.9	2.9	.7	.1		12.8	16.3		12.7	11.6	12.5	9.8	12.9	15.3	11.1	12.1
NE	.5	3.0	4.2	2.4	1.1	.1		11.3	17.9		11.4	12.2	15.3	7.4	11.6	9.8	11.5	10.3
E	.4	2.8	2.5	.9	.4	*		7.1	14.0		7.4	9.1	6.7	4.2	8.2	5.6	5.6	6.7
SE	.3	2.4	2.1	.6	.2	*		5.7	13.7		5.0	4.0	5.1	3.3	9.8	5.7	6.6	5.7
S	.7	4.3	5.1	1.6	.3	.0		12.0	14.1		12.2	11.8	13.7	7.4	11.0	11.5	13.5	11.9
SW	.9	6.2	9.4	4.3	1.2	*		21.9	16.9		24.0	22.5	17.7	16.9	19.3	23.0	22.2	25.8
W	.5	4.5	4.7	2.2	.8	.1		14.3	15.3		12.9	14.7	11.7	19.0	14.4	17.0	15.0	14.4
NW	.4	3.4	5.0	2.7	.9	.1		12.4	16.0		12.1	12.2	15.2	11.8	13.5	10.5	12.3	10.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0		2.3	2.0	2.0	3.5	3.3	1.6	2.2	2.9
TOT OBS							13203		15.3		2627	996	1568	903	2774	1142	2076	1117
TOT PCT	6.9	30.0	39.4	17.6	5.7	.5		100.0			100.0	100.0	100.0	83.3	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	18
N	1.9	4.9	3.7	1.9	.4		12.8	16.3	12.5	12.5	13.9	11.4
NE	1.8	3.9	3.5	1.6	.3		11.3	17.9	11.6	14.3	10.8	11.1
E	1.8	2.6	1.7	.7	.1		7.1	14.0	8.0	6.4	7.4	6.0
SE	1.3	3.0	.8	.5	.1		5.7	13.7	4.8	4.8	6.0	6.4
S	2.2	5.9	3.2	.7	*		12.0	14.1	11.9	12.5	11.1	12.9
SW	3.1	9.3	6.6	2.4	.3		21.9	16.9	23.7	18.1	20.4	23.6
W	2.0	6.9	3.6	1.4	.4		14.3	15.3	13.5	13.6	13.1	14.4
NW	1.3	5.2	3.7	1.8	.3		12.4	16.0	11.8	13.3	12.6	11.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	2.3	2.3	2.7	2.4
TOT OBS						13203		15.3	3623	2471	3916	3193
TOT PCT	18.0	41.9	27.1	11.1	1.9		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.3	4.4	29.8	39.7	17.2	5.9	.6	13.7	100.0	3623
06009	2.3	4.1	33.7	37.4	19.9	2.1	.5	14.6	100.0	2471
12015	2.7	5.1	30.4	39.4	16.7	5.3	.4	15.2	100.0	3916
18021	2.4	3.6	28.3	39.2	19.6	6.6	.3	16.2	100.0	3193
TOT								15.5		13203
PCT	2.4	4.3	30.0	39.4	17.6	5.7	.5	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	1.0	2.6	6.3		5.9
NE	1.8	.6	2.2	7.2		6.4
E	.5	.5	1.2	4.5		6.8
SE	.5	.5	1.2	3.6		6.7
S	2.1	.9	2.3	6.9		6.2
SK	5.4	2.8	5.2	9.4		5.5
W	4.5	1.5	4.0	3.8		4.8
NW	2.6	1.4	3.1	5.0		5.6
VAR	.0	.0	.0	.0		.0
CALM	1.0	.1	.6	1.0		5.4
TOT OBS					7320	5.7
TOT PCT	20.8	9.3	22.3	47.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/R) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.0	.2	.7	1.0	2.2	1.5	.4	.2	.1	.2	4.8	
NE	1.4	.2	.6	1.6	1.7	1.7	.3	.2	.1	.3	3.7	
E	.4	.1	.4	.9	1.2	.9	.3	*	.2	.3	1.9	
SE	.5	.1	.2	.4	1.0	.8	.2	.1	.2	.1	2.0	
S	1.2	.1	.4	.9	2.0	1.4	.5	.2	.2	.4	4.7	
SK	1.5	.1	.8	2.1	3.3	2.5	.6	.2	.3	.5	10.9	
W	.8	.1	.4	.9	2.0	1.1	.4	.1	.3	.2	7.6	
NW	.6	.3	.6	1.2	2.0	1.4	.5	*	.2	.2	5.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	*	.1	.3	.2	.2	.1	*	.1	.1	1.3	
TOT OBS	7.7	1.3	4.1	9.3	15.5	11.6	3.4	1.0	1.7	2.3	42.0	7320
TOT PCT												100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/R) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.0	3.6	3.9	3.9	3.9	4.0	4.0	4.0
= OR >5000	2.7	4.6	4.9	4.9	5.0	5.0	5.0	5.0
= OR >3500	4.4	7.3	8.2	8.2	8.3	8.4	8.4	8.4
= OR >2000	9.4	16.5	19.1	19.5	19.9	20.0	20.1	20.1
= OR >1000	15.9	28.0	32.8	33.9	34.9	35.3	35.5	35.5
= OR >600	18.5	33.7	40.9	42.9	44.1	44.6	44.9	44.9
= OR >300	18.9	34.9	43.4	46.4	47.7	48.6	49.0	49.0
= OR >150	18.9	35.2	43.9	47.2	48.9	49.8	50.2	50.2
= OR >0	19.0	35.5	45.0	48.8	51.8	54.5	57.4	58.0

TOTAL NUMBER OF OBS: 7411

PCT FREQ NH <5/8: 2.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	13.7	9.6	8.6	5.6	3.8	4.2	6.6	7.8	33.1	8006

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.5	.6	.2	.2	.2	.3	.2	.4	.0	*	2.7	
	NO PCP	.4	.4	.3	.3	1.1	1.4	.5	.2	.0	.3	5.1	
	TOT %	.9	1.2	.5	.5	1.2	1.7	.7	.6	.0	.3	7.7	
1/2<1	PCP	.3	.5	.3	.2	.2	.3	.5	.3	.0	.0	2.6	
	NO PCP	.2	.2	.2	.1	.2	.7	.2	.2	.0	*	2.1	
	TOT %	.5	.7	.5	.3	.4	.9	.7	.5	.0	*	4.7	
1<2	PCP	.3	.5	.2	.1	.4	.6	.3	.4	.0	*	2.9	
	NO PCP	*	.2	.1	.1	.2	.2	.1	*	.0	*	.9	
	TOT %	.4	.6	.3	.2	.6	.8	.4	.5	.0	.1	3.7	
2<5	PCP	.4	.5	.8	.4	1.0	1.0	.6	.6	.0	.3	5.7	
	NO PCP	.5	.6	.3	.2	.7	1.3	.3	.5	.0	.1	4.4	
	TOT %	1.1	1.1	1.1	.6	1.7	2.3	.8	1.1	.0	.4	10.1	
5<10	PCP	.8	1.0	.6	.5	.6	1.4	.8	.8	.0	*	6.5	
	NO PCP	3.8	3.0	2.0	1.8	3.1	6.3	3.9	3.1	.0	.4	27.4	
	TOT %	4.7	4.0	2.6	2.3	3.7	7.6	4.7	3.9	.0	.4	33.9	
10+	PCP	.3	.1	.1	.1	.1	.1	.1	.1	.0	.1	1.1	
	NO PCP	4.7	3.7	1.9	1.7	4.5	8.6	6.9	5.5	.0	1.3	38.8	
	TOT %	4.9	3.8	1.9	1.9	4.7	8.8	7.0	5.5	.0	1.4	39.8	
TOT OBS													12351
TOT PCT													12351
TOT PCT													12351

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.1	.1	.2	.1	.1	.0	.3	1.0	
	4-10	.2	.3	.3	.3	.5	.6	.2	.1	.0		2.7	
	11-21	.2	.3	.1	.1	.5	.6	.1	.1	.0		2.0	
	22+	.4	.4	.1	.1	.1	.2	.3	.4	.0		2.0	
	TOT %	.9	1.1	.5	.5	1.2	1.7	.7	.6	.0	.3	7.7	
1/2<1	0-3	*	*	*	*	*	.1	*	*	.0	*	.3	
	4-10	.1	.1	.1	.1	.2	.3	.2	.1	.0		1.2	
	11-21	.3	.3	.3	.1	.2	.3	.3	.2	.0		2.0	
	22+	.1	.2	.1	.1	.1	.2	.2	.1	.0		1.0	
	TOT %	.5	.7	.5	.3	.4	.9	.7	.5	.0	*	4.6	
1<2	0-3	*	*	*	.0	*	.0	.0	.0	.0	.1	.1	
	4-10	*	.1	*	*	.2	.2	.2	*	.0		.6	
	11-21	.2	.2	.1	.1	.2	.3	.2	.1	.0		1.5	
	22+	.1	.4	.1	*	.2	.4	.1	.3	.0		1.6	
	TOT %	.4	.6	.3	.2	.6	.9	.4	.5	.0	.1	3.8	
2<5	0-3	*	*	*	*	.1	.1	*	.1	.0	.4	.7	
	4-10	.3	.2	.5	.2	.5	.5	.3	.2	.0		2.6	
	11-21	.3	.4	.3	.2	.6	1.0	.3	.4	.0		3.4	
	22+	.5	.6	.3	.2	.4	.7	.3	.5	.0		3.5	
	TOT %	1.1	1.1	1.0	.6	1.6	2.3	.9	1.1	.0	.4	10.1	
5<10	0-3	.3	.2	.2	.1	.1	.3	.2	.1	.0	.4	1.8	
	4-10	1.1	1.0	.9	.9	1.2	2.0	1.4	1.1	.0		9.7	
	11-21	1.8	1.6	.8	.9	1.7	3.2	2.0	1.6	.0		13.6	
	22+	1.4	1.2	.7	.4	.6	2.1	1.0	1.1	.0		8.5	
	TOT %	4.6	3.9	2.6	2.3	3.6	7.6	4.7	3.9	.0	.4	33.5	
10+	0-3	.3	.2	.1	.1	.3	.2	.2	.1	.0	1.4	2.9	
	4-10	1.5	1.3	.9	.9	1.7	2.6	2.3	1.8	.0		13.1	
	11-21	2.0	1.4	.8	.8	2.0	4.1	3.3	2.5	.0		17.0	
	22+	1.2	.9	.2	.1	.7	1.9	1.3	1.1	.0		7.2	
	TOT %	5.0	3.8	2.0	1.9	4.7	8.8	7.1	5.6	.0	1.4	40.2	
TOT OBS													12726
TOT PCT													12726
TOT PCT													12726

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH $\geq 4/8$ AND
OCCURRENCE OF NH $< 5/8$ BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 909	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH $< 5/8$ ANY HGT	TOTAL OBS
00003	9.2	.6	4.2	7.0	13.5	12.8	2.5	1.0	2.6	2.3	55.6	44.4	1898
06009	15.6	.3	2.1	7.2	11.7	11.3	2.5	1.0	4.9	1.5	58.1	41.9	1475
12015	6.0	2.1	4.0	10.5	16.7	11.7	3.3	.8	1.1	2.7	58.4	41.6	2154
18021	6.0	1.2	4.2	10.1	15.4	11.1	4.0	1.2	1.3	2.3	56.9	43.1	2194
TOT PCT	7.6	1.2	4.0	9.2	15.2	11.5	3.3	1.0	1.7	2.3	56.9	43.1	7661 100.0

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOURL (GMT)	$< 1/2$	$1/2 < 1$	$1 < 2$	$2 < 5$	$5 < 10$	$10+$	TOTAL OBS
00003	9.6	5.1	1.1	8.8	37.4	36.0	3685
06009	6.9	3.4	2.0	10.2	26.7	50.8	2512
12015	8.5	4.8	4.6	11.3	34.7	36.2	3993
18021	6.1	4.6	1.9	10.4	31.0	44.0	3245
TOT PCT	8.0	4.7	1.8	10.0	33.7	39.7	13435 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OR
CEILING HGT (FEET) NH $\geq 4/8$ BY HOUR

HOURL (GMT)	< 150 < 500	$150 < 600$ < 1	$600 < 1000$ < 5	$1000+$ AND $5+$	NH $< 5/8$ AND $5+$	TOTAL OBS
00003	9.7	17.7	31.4	28.2	40.4	1759
06009	16.0	18.9	31.5	29.0	39.5	1412
12015	6.1	14.8	33.7	27.6	38.7	2095
18021	6.1	14.1	31.1	27.8	41.1	2145
TOT PCT	7.8	15.5	31.9	28.0	40.2	7411 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	*	*	.0	.0	.0	.0	*	*
70/74	.0	.0	*	*	*	.0	.0	.0	.1	.1
65/69	.0	.0	*	*	.1	.2	.1	.1	.5	.5
60/64	.0	*	*	*	.1	.6	1.1	.8	2.6	2.6
55/59	.0	.0	.0	.1	.3	1.4	3.2	2.9	7.9	7.9
50/54	.0	*	*	.1	.6	1.5	4.0	4.1	10.3	10.3
45/49	.0	*	*	.1	.7	2.0	3.2	4.9	10.8	10.8
40/44	.0	*	*	.2	1.0	1.9	4.0	5.1	12.3	12.3
35/39	.0	*	*	.1	.9	3.1	4.3	5.7	14.2	14.2
30/34	.0	.0	*	.2	1.0	2.0	4.2	9.3	16.7	16.7
25/29	.0	.0	*	.2	.6	1.8	3.4	3.3	9.3	9.3
20/24	.0	.0	.2	.2	.5	1.1	3.0	2.7	7.6	7.6
15/19	.0	.0	.0	*	.2	.9	1.9	.9	3.9	3.9
10/14	.0	.0	.0	.1	.2	.7	.9	.5	2.5	2.5
5/9	.0	.0	.0	.0	*	.2	.3	.2	.8	.8
0/4	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
-1/-4	.0	.0	.0	.0	.0	.0	.2	.0	.2	.2
TOTAL PCT	.0	.1	.4	1.5	6.3	17.1	33.9	40.8	8004 100.0	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	.0	.0	*	.0	.0	.0	*
*	.0	.0	.0	*	*	*	*	.0	.0
.0	.1	*	*	.1	.2	.1	*	.0	*
.1	.1	.1	.1	.6	1.1	.3	.1	.0	.1
.4	.6	.4	.5	1.7	3.0	.8	.3	.0	.2
.6	1.0	.6	.7	1.7	3.5	1.2	.7	.0	.3
.9	1.3	.7	.8	1.7	2.9	1.3	.8	.0	.3
1.4	1.5	1.0	1.0	1.6	2.9	1.6	1.0	.0	.3
1.9	1.6	1.7	1.0	2.0	2.9	1.4	1.1	.0	.4
2.9	2.6	1.2	1.0	2.0	2.4	2.0	2.2	.0	.5
1.0	1.4	.8	.3	.8	1.8	1.3	1.7	.0	.2
1.6	.5	.6	.1	.2	1.5	1.5	1.4	.0	.2
.8	.2	.3	.0	.2	.7	.8	1.0	.0	.0
.5	.4	.0	.1	.1	.0	.8	.6	.0	.1
.1	.1	.1	.0	.2	.1	.1	.1	.0	.0
.0	.0	.0	.0	.0	.0	.1	*	.0	.0
.0	.0	.0	.0	.0	.0	.1	.1	.0	.0
12.1	11.5	7.5	5.9	12.5	23.2	13.5	11.1	.0	2.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	74	52	48	38	27	24	5	46.6	3821
06009	70	49	47	38	29	25	3	46.3	2384
12015	75	54	49	38	26	22	-7	46.3	4114
18021	78	55	50	39	29	23	-1	47.5	3287
TOT	78	55	49	38	27	22	-7	46.7	13806

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.5	6.1	14.8	34.9	42.7	86	2186		
06009	.0	1.3	3.9	13.7	29.1	52.0	88	1619		
12015	.0	2.0	5.4	16.4	34.8	41.3	86	2305		
18021	.0	2.7	6.8	21.1	31.2	36.2	83	2170		
TOT	0	18	523	1387	2778	3355	86	8230		

ANNUAL

PERIOD: (PRIMARY) 1886-1971
(COVER-ALL) 1860-1971AREA 0001 BELL ISLE STRAIT
30.7N 57.2W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	04 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
530	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.0
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	32	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	53	.0	.3
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	138	.1	.6
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.5	.3	.4	.3	.1	.1	.0	.0	.0	.0	303	.3	1.8
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.7	.5	.6	.4	.4	.3	.1	.1	.0	.0	.0	.0	392	.3	2.9
7/8	.0	.0	.0	.0	.0	.0	.0	.1	.9	.6	.6	.9	.6	.4	.2	.1	.0	.0	.0	.0	650	.8	3.5
6	.0	.0	.0	.0	.0	.0	.0	.3	1.2	.6	.6	.5	.4	.3	.1	.0	.0	.0	.0	.0	477	.5	3.5
5	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	.6	.6	.7	.6	.4	.1	.0	.0	.0	.0	.0	702	1.1	4.2
4	.0	.0	.0	.0	.0	.0	.0	1.7	.8	.6	.6	.9	.9	.6	.5	.1	.0	.0	.0	.0	841	1.3	4.6
3	.0	.0	.0	.0	.0	.0	.7	2.2	1.0	1.0	.8	1.0	.8	.6	.1	.0	.0	.0	.0	.0	1033	1.5	6.8
2	.0	.0	.0	.0	.0	.0	1.5	1.9	1.2	1.0	1.0	.9	.7	.6	.1	.0	.0	.0	.0	.0	1115	1.4	7.5
1	.0	.0	.0	.0	.0	.0	2.0	1.0	1.2	.9	1.0	.9	.8	.4	.1	.0	.0	.0	.0	.0	1121	1.5	6.8
0	.0	.0	.0	.0	.0	.0	1.3	1.2	1.0	.9	.8	.7	.7	.4	.0	.0	.0	.0	.0	.0	960	.8	6.2
-1	.0	.0	.0	.0	.0	.0	1.5	.9	.6	.5	.5	.5	.5	.2	.1	.0	.0	.0	.0	.0	714	.5	5.2
-2	.0	.0	.0	.0	.0	.6	.8	.4	.5	.4	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	502	.4	3.4
-3	.0	.0	.0	.0	.0	1.2	1.2	.6	.3	.4	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	459	.2	4.4
-4	.0	.0	.0	.0	.0	.7	.4	.4	.3	.3	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	346	.1	2.6
-5	.0	.0	.0	.0	.7	1.0	1.2	.5	.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	294	.1	3.5
-6	.0	.0	.0	.0	.7	.6	.6	.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	226	.0	2.8
-7/-8	.0	.0	.0	.0	1.2	1.5	.6	.7	.4	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	304	.1	4.1
-9/-10	.0	.0	.0	.0	1.2	1.0	.7	.4	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	222	.0	3.9
-11/-13	.0	.0	.0	.0	1.7	.7	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	.0	3.3
-14/-16	.0	.0	.0	1.2	1.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	.0	3.0
-17/-19	.0	.0	.4	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	.0	1.4
-20/-22	.0	.2	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	.0	1.3
-23/-25	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	.4
-26/-30	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.2	.1
<-30	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL																					11197		
PCT	.2	.6	1.3	2.7	4.5	4.9	6.4	12.5	13.1	12.1	9.3	9.3	9.2	7.5	4.7	1.6	.4	.1	*	*	100.0	11.1	88.9

PERIOD: (COVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KT) SECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.9	.7	.0	.0	.0	.7	<1	.6	.9	.7	.0	.0	.0	1.2
1-2	.1	1.5	1.5	.0	.0	.0	.1	1-2	.1	1.2	1.4	.0	.0	.0	2.7
3-4	.0	.7	1.4	.6	.0	.0	.0	3-4	.0	.4	2.0	.6	.0	.0	3.0
5-6	.0	.1	1.0	.8	.0	.0	.0	5-6	.0	.2	.9	1.8	.5	.0	3.5
7	.0	.0	.4	.5	.2	.0	.0	7	.0	.0	.9	1.2	.4	.0	2.3
8-9	.0	.0	.0	.7	.1	.0	.7	8-9	.0	.0	.0	1.0	.0	.0	1.1
10-11	.0	.0	.0	.1	.0	.0	.1	10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.4	.0	.0	.5	12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.3	.1	.0	.4	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.1	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.2	4.4	3.3	.5	.0	12.2	TOT PCT	.7	2.8	5.3	4.8	1.1	.0	14.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.3	.0	.0	.0	.9	<1	.1	.7	.1	.0	.0	.0	.8
1-2	.0	1.4	.7	.0	.0	.0	2.1	1-2	.0	.9	.7	.0	.0	.0	1.6
3-4	.0	.2	.7	.2	.0	.0	1.0	3-4	.0	.2	.9	.1	.0	.0	1.3
5-6	.0	.1	.3	.2	.0	.0	.6	5-6	.0	.0	.2	.1	.0	.0	.3
7	.0	.0	.3	.2	.4	.0	.9	7	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.0	.3	.0	.0	.4	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.2	.0	.2
12	.0	.0	.0	.2	.1	.0	.3	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	2.3	1.0	.6	.0	6.2	TOT PCT	.1	1.8	2.0	.4	.2	.0	4.9

PERIOD: (OVER-ALL) 1963-1971

ANNUAL
TABLE 18 (CONT)AREA 0001 BELLE ISLE STRAIT
50.7N 57.2W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.1	.3	.0	.0	.0	2.6	.4	2.4	.4	.0	.0	.0	3.1
1-2	*	2.4	.9	.0	.0	.0	3.4	.1	2.9	1.7	.0	.0	.0	4.7
3-4	.0	.3	1.6	.3	.0	.0	2.2	.2	.8	4.7	.6	.0	.0	6.4
5-6	.0	.1	1.1	.4	*	.0	1.6	.0	.2	1.9	1.0	.7	.0	3.7
7	.0	.0	.6	.4	.0	.0	1.0	.0	.0	1.2	1.4	.1	.0	2.7
8-9	.0	.0	*	.1	*	.0	.1	.0	*	.2	.8	.3	.0	1.3
10-11	.0	.0	*	*	.1	.0	.2	.0	.0	*	.3	.6	*	1.0
12	.0	.0	.0	.1	*	.0	.1	.0	.0	.0	.1	.8	.0	1.0
13-16	.0	.0	.1	.0	*	.0	.1	.0	.0	*	.1	.1	*	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	*	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.9	4.7	1.3	.2	.0	11.3	.6	6.3	10.3	4.5	2.6	*	24.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.7	.2	.0	.0	.0	1.0	.2	.4	.3	.0	.0	.0	.9	
1-2	.1	1.6	.7	.0	.0	.0	2.4	*	1.2	1.4	.0	.0	.0	2.6	
3-4	*	.7	1.8	.7	.0	.0	3.2	.0	.4	1.8	.4	.0	.0	2.6	
5-6	.0	.1	1.3	.5	.3	.0	2.2	.0	.1	.7	.8	.1	.0	1.7	
7	.0	.0	.5	.6	.1	.0	1.2	.0	.0	.6	1.0	.1	.0	1.6	
8-9	.0	.0	.3	.5	.1	.0	.8	.0	.0	.0	.6	*	.0	.6	
10-11	.0	.0	*	.1	.3	.0	.4	.0	.0	.0	.1	*	.0	.2	
12	.0	.0	.0	*	*	.0	*	.0	*	*	.1	.0	.0	.1	
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.9	.2	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	3.2	4.8	2.4	.9	.2	11.6	.2	2.1	4.9	4.0	.4	.0	11.6	95.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	6.2	8.8	1.9	.0	.0	.0	16.9	
1-2	.6	13.1	8.9	.0	.0	.0	22.6	
3-4	.2	3.7	14.8	3.4	.0	.0	22.1	
5-6	.0	.8	7.3	1.4	1.7	.0	15.2	
7	.0	*	4.3	1.3	1.3	.0	11.0	
8-9	.0	*	.6	4.1	.5	.0	5.1	
10-11	.0	*	.1	.9	1.3	*	2.3	
12	.0	*	*	.9	1.2	*	2.1	
13-16	.0	.0	.1	1.3	.5	*	2.0	
17-19	.0	.0	.0	.2	*	.2	.4	
20-22	.0	.0	.0	.2	*	*	.2	
23-25	.0	.0	.0	.0	*	.0	*	
26-32	.0	.0	.0	.0	.0	*	*	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.0	26.5	38.2	21.6	6.5	.3	100.0	3235

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.9	14.6	15.9	7.0	5.2	2.5	.8	.7	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2819	3
6-7	*	.6	4.0	6.8	3.0	2.0	1.2	1.3	.6	.2	.2	*	*	.0	.0	.0	.0	.0	.0	1043	6
8-9	*	.2	.8	1.3	1.8	.7	.6	.2	.9	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	342	7
10-11	.0	.3	.5	.2	.6	.5	.2	.1	.9	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	7
12-13	.0	.0	.7	.4	*	*	.2	*	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	7
>13	.0	.0	.0	*	.1	*	*	*	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	21	11
INDET	9.2	2.7	2.3	.7	1.0	.2	.3	*	.3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	796	2
TOTAL																				5184	4
PCT	13.2	18.5	24.1	16.4	11.8	6.0	3.4	2.3	3.0	.6	.6	*	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1886-1971
(OVER-ALL) 1860-1971

AREA 0001 BELL ISLE STRAIT
50.7N 57.2W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.2	*	.0	.0	.0	7	.1
65/66	.0	.0	.0	.0	.0	.0	.0	.6	*	.0	.0	.0	17	.5
63/64	.0	.0	.0	.0	.0	.0	.1	2.0	*	.0	.0	.0	56	.9
61/62	.0	.0	.0	.0	.0	.0	.5	3.3	.3	.1	.0	.0	105	.9
59/60	.0	.0	.0	.0	.0	.1	1.2	6.8	1.4	.1	.0	.0	237	2.0
57/58	.0	.0	.0	.0	.0	.1	3.4	11.8	4.3	.1	.0	.0	485	4.0
55/56	.0	.0	.0	.0	.0	.0	9.0	14.5	9.7	1.2	.0	.0	826	6.9
53/54	.0	.0	.0	.0	.0	.5	12.0	12.9	10.6	1.8	.0	.0	888	7.4
51/52	.0	.0	.0	.0	.0	1.6	12.2	8.9	12.8	4.4	.0	.0	911	7.6
49/50	.0	.0	.0	.0	.0	3.8	13.0	11.5	13.9	5.8	.1	.0	1075	8.9
47/48	.0	.0	.0	.0	.9	7.1	12.1	9.7	12.8	11.1	1.1	.3	1131	9.4
45/46	.0	.0	.0	.0	.9	13.3	11.1	7.9	12.4	12.4	5.0	.0	1178	9.8
43/44	.0	.0	.0	.0	.9	16.5	9.4	5.6	9.3	11.9	7.4	1.1	1056	8.8
41/42	.8	.0	2.9	.8	4.4	13.7	7.2	2.5	7.0	12.9	12.3	3.1	928	7.7
39/40	.8	3.3	.0	3.0	5.3	14.0	4.0	1.3	3.5	17.2	14.6	9.9	883	7.3
37/38	4.7	6.7	5.9	3.1	9.7	15.1	2.3	.4	1.2	13.7	17.5	13.8	768	6.4
35/36	14.8	6.7	2.9	8.4	22.1	8.3	1.3	*	.5	5.2	20.8	15.5	546	4.5
33/34	14.1	16.7	10.3	14.4	8.8	4.7	.9	*	.1	2.1	14.9	23.4	403	3.4
31/32	32.0	20.0	22.1	31.8	33.6	1.0	*	*	*	4.7	21.2	28.2	282	2.3
29/30	32.0	46.7	52.9	38.6	13.3	.0	.0	.0	.0	1.0	10.7	21.9	219	1.8
27/28	.8	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.5	.6	10	.1
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1	*
TOTAL	128	60	68	132	113	977	2181	2544	2436	2052	965	354	12010	100.0
MEAN	32.0	31.7	31.2	32.8	35.0	41.5	48.4	52.2	48.8	42.9	37.8	34.5	39.0	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1005	1008	1009	1012	1008	1012	1009	1010	196
FEB	1004	1001	1011	1010	1009	1003	1007	1003	1005	104
MAR	1009	1008	1017		1010	1006	1008	1004	1008	155
APR	1011	1007	1012		1011	1011	1011	1010	1011	303
MAY	1013	1015	1015	1013	1013	1015	1013	1015	1013	129
JUN	1010	1010	1010	1009	1010	1012	1010	1010	1010	903
JUL	1012	1011	1012	1012	1012	1012	1012	1010	1012	1835
AUG	1011	1012	1010	1010	1011	1012	1011	1012	1011	1807
SEP	1013	1014	1013	1013	1014	1012	1013	1012	1013	1884
OCT	1012	1012	1012	1011	1011	1013	1010	1011	1011	1776
NOV	1013	1015	1013	1016	1014	1018	1012	1016	1014	941
DEC	1014	1016	1013	1017	1013	1018	1012	1013	1014	416
ANN	1011	1011	1012	1012	1012	1012	1011	1010	1012	10445
MEAN	2158	559	1565	476	2333	635	2065	654		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	976	986	994	1003	1010	1018	1027	1034	1040
FEB	976	976	984	996	1007	1014	1025	1034	1036
MAR	959	960	983	998	1010	1019	1032	1035	1036
APR	981	982	993	1004	1012	1018	1025	1028	1034
MAY	1001	1001	1002	1007	1015	1019	1024	1025	1030
JUN	986	993	997	1005	1011	1016	1022	1025	1030
JUL	989	995	1000	1007	1012	1016	1022	1025	1029
AUG	978	990	997	1006	1011	1016	1022	1025	1032
SEP	985	990	998	1007	1014	1020	1026	1029	1034
OCT	971	982	993	1005	1012	1019	1026	1029	1039
NOV	969	982	992	1006	1015	1022	1033	1038	1046
DEC	972	981	993	1007	1016	1021	1032	1035	1040

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

JANUARY

AREA 0002 OSV RRAVD
36.5N 51.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRIG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
N	4.3	1.5	.6	.0	37.7	.1	1.2	43.6	7.7	.2	.4	.0	.7	.0	47.3
NF	12.4	3.6	1.2	.0	24.7	.2	.4	19.8	6.9	.0	2.5	.0	.0	1.3	49.6
E	18.4	2.3	2.0	.0	17.8	.0	.4	18.8	5.0	.1	3.8	.0	.2	.2	52.0
SE	24.2	4.7	2.5	.0	28.4	.3	.3	15.6	3.8	.1	1.7	.3	.0	.0	38.3
S	12.8	1.9	2.4	.2	35.5	.2	.1	49.8	6.2	.0	.8	.2	.0	.7	42.8
SW	2.5	1.2	.4	.0	54.2	.3	.2	17.8	6.9	.0	.5	.0	.1	*	34.6
W	1.2	.7	.2	.0	60.6	.1	.3	12.5	6.9	.0	.1	.0	.2	.1	30.2
NW	2.5	.4	.2	.0	56.2	.2	.8	18.9	7.6	.1	.1	.0	.4	.1	32.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4	.0	10.3	.0	24.1	.0	.0	17.9	3.4	.0	.0	.0	.0	.0	58.6
TOT PCT	7.3	1.6	.9	*	43.7	.2	.5	12.4	6.7	.1	1.0	*	.3	.2	39.3
TOT OBS:	5881														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRIG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
00003	7.7	1.5	.9	.0	44.8	.1	.3	13.3	7.4	.0	.3	.0	.7	.1	38.6
06009	8.7	1.4	.8	.0	43.1	.3	.3	12.9	5.1	.1	.7	.0	.1	.3	40.7
12015	5.7	1.6	.9	.0	40.5	.1	.6	18.0	7.4	.1	1.7	.1	.3	.1	42.4
18021	7.0	2.0	1.0	.1	46.5	.1	.7	15.4	6.8	.1	1.2	.1	.3	.3	35.7
TOT PCT	7.3	1.6	.9	*	43.7	.2	.5	12.4	6.7	.1	1.0	*	.3	.2	39.3
TOT OBS:	5886														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	1.6	4.1	4.5	1.8	.3		12.4	22.8		11.5	11.1	11.3	13.0	12.8	13.5	12.8	12.9
NF	.1	1.1	3.3	4.1	1.8	.4		10.7	24.3		11.7	10.7	10.8	11.3	11.3	9.8	9.8	10.2
E	.1	.8	2.7	4.5	2.1	.4		10.7	26.0		10.2	10.5	10.4	10.2	11.1	11.6	10.5	11.3
SE	.1	.7	1.7	2.3	.9	.3		6.1	24.6		6.6	6.5	6.4	5.7	5.9	5.6	6.0	6.1
S	.1	1.3	2.5	2.1	1.0	.3		7.2	21.9		6.7	8.1	7.5	6.6	6.7	7.5	8.2	6.6
SW	.1	1.5	4.3	4.7	1.5	.2		12.4	22.6		17.0	11.3	12.1	12.3	13.5	14.3	11.3	12.0
W	.1	1.9	4.8	7.9	4.2	.8		20.7	25.6		21.0	21.3	20.5	22.0	20.5	19.4	21.5	19.1
NW	.1	1.9	4.8	7.5	4.4	.6		19.3	26.1		19.7	20.0	20.5	17.8	17.9	18.1	19.3	21.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5							.5	.0		.5	.4	.4	.8	.3	.1	.7	.7
TOT OBS	75	638	1725	2215	1048	199	5901		24.4		740	745	740	738	732	726	738	742
TOT PCT	1.3	10.8	29.2	37.6	17.8	3.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	.6	3.3	4.7	3.1	.7			12.4	22.8		11.3	12.1	13.2	12.9
NE	.3	2.4	3.9	3.0	.9			10.7	24.3		11.2	11.1	10.5	10.0
E	.4	2.0	3.6	3.9	.9			10.7	26.0		10.4	10.3	11.4	10.9
SE	.3	1.4	2.0	1.7	.6			6.1	24.6		6.5	6.1	5.8	6.0
S	.6	2.2	2.2	1.9	.4			7.2	21.9		7.4	7.1	7.1	7.4
SW	.6	3.2	4.7	3.2	.6			12.4	22.6		11.6	12.3	13.9	11.7
W	.7	4.3	6.7	7.5	1.5			20.7	25.6		21.2	21.3	19.9	20.3
NW	.7	3.6	6.0	7.2	1.9			19.3	26.1		19.9	19.1	18.0	20.2
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	.5							.5	.0		.5	.6	.2	.7
TOT OBS	283	1323	1993	1856	446	5901			24.4		1485	1478	1458	1480
TOT PCT	4.8	22.4	33.8	31.5	7.6			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

JANUARY

AREA 0002 OSV BRAVO
36.5N 51.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.5	.6	10.9	29.4	38.0	17.2	3.4	24.4	100.0	1485
06009	.6	1.0	10.0	29.8	37.3	17.7	3.5	24.6	100.0	1478
12015	.2	1.0	11.7	28.1	37.3	18.6	3.2	24.4	100.0	1458
18021	.7	.5	10.6	29.6	37.6	17.5	3.4	24.3	100.0	1480
TOT	.9	.6	10.8	29.2	37.6	17.8	3.4	24.4		5901
PCT	.5	.8	10.8	29.2	37.6	17.8	3.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.3	.7	3.3	8.1		7.1
NE	.3	.4	2.2	7.7		7.2
E	.2	.2	1.7	8.6		7.5
SE	.1	.1	.8	5.2		7.7
S	.1	.2	1.5	5.4		7.4
SW	.3	.4	4.0	7.7		7.2
W	.4	.8	8.0	11.6		7.1
NW	.4	.9	7.1	11.0		7.0
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.1	.3		6.4
TOT OBS	122	221	1690	3856	5889	7.2
TOT PCT	2.1	3.8	28.7	65.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.4	.	.6	.3	5.3	3.4	.3	.	.0	.	1.9	
.6	.	.4	1.0	4.2	2.7	.2	.0	.	.	1.6	
.4	.1	.5	1.0	5.0	2.2	.1	.	.	.1	1.2	
.4	.	.3	.8	2.5	1.4	.1	.	.	.	.6	
.2	.	.3	.8	2.9	2.0	.1	.0	.0	.1	.9	
.4	.	.3	.7	5.8	3.5	.1	.1	.	.	1.6	
.8	.0	.4	1.2	9.7	5.9	.3	.1	.	.	2.1	
.9	.	.3	1.2	8.6	5.9	.2	.	.1	.	2.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.	.0	.0	.0	.1	.1	.	.0	.0	.0	.2	
242	12	175	414	2413	1598	76	12	13	15	719	5889
4.1	.2	3.0	7.0	44.4	27.1	1.3	.2	.2	.3	12.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.3	.5	.5	.5	.5	.5	.5	.5
= OR >5000	.3	.6	.6	.7	.7	.7	.7	.7
= OR >3500	.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0
= OR >2000	11.2	27.0	28.6	29.0	29.1	29.1	29.1	29.1
= OR >1000	20.1	60.5	69.4	71.7	73.2	73.4	73.4	73.5
= OR >600	20.7	63.8	74.9	78.0	80.0	80.4	80.5	80.5
= OR >300	20.7	64.4	76.2	79.8	82.6	83.3	83.4	83.5
= OR >150	20.7	64.4	76.3	79.9	82.7	83.4	83.6	83.7
= OR >0	20.7	64.4	76.5	80.5	84.6	86.6	87.6	87.8
TOTAL	1220	3793	4504	4748	4984	5099	5160	5170

TOTAL NUMBER OF OBS: 5889

PCT FREQ NH <5/8 12.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
.4	.9	3.9	4.0	2.9	6.0	15.1	12.9	49.7	4.1	5903

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

JANUARY

AREA 0002 DSV PRAVO
56.5N 51.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	.2	.1	.3	.2	.4	.7	.6	.0	.0	2.8	
	NO PCP	* .1	.1	* .1	* .1	* .1	* .1	.1	.1	.0	.0	.4	
	TOT %	.4	.3	.3	.3	.2	.7	.8	.7	.0	.0	3.2	
1/2<1	PCP	.4	.4	.3	.3	.3	.4	.9	.8	.0	*	4.1	
	NO PCP	.1	* .1	* .1	* .1	* .1	* .1	* .1	* .1	.0	.0	.3	
	TOT %	.4	.4	.4	.4	.4	.4	.9	.9	.0	*	4.3	
1<2	PCP	.4	.4	.3	.4	.3	.5	.8	.5	.0	.0	3.6	
	NO PCP	* .1	.2	.1	* .1	* .1	* .1	* .1	* .1	.0	.0	.5	
	TOT %	.4	.5	.5	.5	.4	.5	.9	.6	.0	.0	4.1	
2<5	PCP	.4	.9	1.2	1.0	1.0	1.7	2.9	2.0	.0	*	11.4	
	NO PCP	.1	.1	.1	.1	.2	.1	.2	.2	.0	.0	1.1	
	TOT %	.6	1.0	1.4	1.1	1.2	1.8	3.1	2.3	.0	*	12.5	
5<10	PCP	2.7	2.1	1.9	1.1	1.6	3.7	6.2	5.4	.0	.1	24.8	
	NO PCP	3.3	3.4	3.7	1.4	1.7	2.6	3.9	3.7	.0	.1	23.6	
	TOT %	6.0	5.5	5.6	2.5	3.2	6.3	10.2	9.1	.0	.2	48.5	
10+	PCP	.9	.3	.3	.2	.2	.4	1.3	2.0	.0	.0	5.8	
	NO PCP	3.5	2.8	2.4	1.1	1.7	2.4	3.5	3.8	.0	.3	21.6	
	TOT %	4.5	3.0	2.7	1.3	1.9	3.1	4.8	5.8	.0	.3	27.4	
TOT OBS													5881
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	* .1	* .1	* .1	* .1	* .1	* .1	* .1	* .1	.0	.0	.2	
	11-21	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.5	
	22+	.4	.2	.2	.2	.1	.2	.7	.6	.0	.0	2.6	
	TOT %	.4	.3	.3	.3	.2	.3	.8	.7	.0	.0	3.2	
1/2<1	0-3	.0	.0	.0	.0	* .0	.0	.0	.0	.0	*	.1	
	4-10	* .1	* .1	* .1	* .1	* .1	* .1	* .1	* .1	.0	.0	.2	
	11-21	* .1	* .1	* .1	* .1	.1	.1	.2	.1	.0	.0	.7	
	22+	.4	.4	.4	.4	.2	.3	.7	.7	.0	.0	3.3	
	TOT %	.4	.4	.4	.5	.4	.4	.9	.9	.0	*	4.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.1	* .1	* .1	.0	.0	.0	.0	.2	
	11-21	* .1	* .1	* .1	* .1	* .1	* .1	.1	.1	.0	.0	.7	
	22+	.3	.3	.4	.3	.3	.4	.7	.5	.0	.0	3.3	
	TOT %	.4	.4	.5	.5	.4	.5	.9	.6	.0	.0	4.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	* .1	* .1	* .1	* .1	* .1	* .1	.1	.1	.0	.0	.7	
	11-21	.2	.2	.3	.3	.3	.4	.5	.3	.0	.0	2.5	
	22+	.4	.7	1.0	.7	.8	1.2	2.4	1.9	.0	.0	9.1	
	TOT %	.6	1.0	1.3	1.1	1.2	1.8	3.1	2.3	.0	*	12.5	
5<10	0-3	* .1	* .1	* .1	* .1	* .1	* .1	* .1	* .1	.0	.2	.4	
	4-10	.7	.4	.3	.3	.5	.6	.8	.6	.0	.0	4.3	
	11-21	1.9	1.6	1.2	.6	1.2	2.3	3.0	2.5	.0	.0	14.3	
	22+	3.3	3.4	4.0	1.6	1.6	3.3	6.3	5.9	.0	.0	29.4	
	TOT %	6.0	5.5	5.6	2.5	3.2	6.2	10.2	9.1	.0	.2	48.5	
10+	0-3	* .1	* .1	* .1	* .1	* .1	* .1	* .1	* .1	.0	.3	.8	
	4-10	.8	.5	.5	.2	.6	.6	.9	1.1	.0	.0	5.2	
	11-21	1.9	1.2	1.0	.6	.8	1.4	1.9	1.8	.0	.0	10.6	
	22+	1.7	1.2	1.0	.4	.4	1.1	2.1	2.9	.0	.0	10.9	
	TOT %	4.5	3.1	2.7	1.3	1.9	3.1	4.9	5.8	.0	.3	27.5	
TOT OBS													5896
TOT PCT													100.0

JANUARY

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

AREA 0002 OSV RAVN
50.5N 51.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	4.9	.2	2.2	5.7	43.5	27.8	1.1	.4	.3	.2	86.3	19.7	1484
06009	3.7	.0	2.4	6.6	43.9	28.1	1.3	.1	.4	.3	86.9	13.1	1478
12015	3.9	.5	3.2	8.3	44.0	27.5	1.1	.1	.1	.1	88.8	11.2	1458
18021	4.0	.1	4.1	7.5	46.1	25.1	1.6	.1	.0	.5	89.2	10.8	1476
TOT	243	12	175	414	2615	1600	76	12	13	15	5175	721	5896
PCT	4.1	.2	3.0	7.0	44.4	27.1	1.3	.2	.2	.3	87.8	12.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.4	4.8	3.8	11.7	48.9	27.4	1487
06009	2.8	3.2	3.7	14.1	50.1	26.1	1478
12015	3.2	5.0	4.3	11.1	48.2	28.2	1458
18021	3.7	4.3	4.7	12.9	46.3	28.2	1478
TOT	191	254	244	735	2855	1622	5901
PCT	3.2	4.3	4.1	12.5	48.4	27.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	4.9	10.1	26.7	59.9	13.4	1487
06009	3.8	8.3	27.5	59.9	12.5	1475
12015	3.9	10.9	28.2	61.5	10.4	1458
18021	4.1	10.9	29.5	60.9	9.6	1474
TOT	245	590	1648	3565	676	5899
PCT	4.2	10.0	28.0	60.5	11.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
40/44	.0	.0	.0	.0	.0	.3	1.5	2.9	272	4.7
35/39	.0	.0	.0	.4	2.0	4.7	6.7	9.6	1354	23.4
30/34	.0	.0	.1	1.0	4.4	7.0	6.6	5.7	1436	24.8
25/29	.0	.0	.1	1.4	5.4	7.9	4.9	4.3	1389	24.0
20/24	.0	.0	.2	.5	2.6	5.4	4.3	2.1	872	15.1
15/19	.0	.0	.0	.4	.8	1.7	2.2	.6	332	5.7
10/14	.0	.0	.0	.0	.4	.4	.6	.3	105	1.8
5/9	.0	.0	.0	.1	.0	.1	.3	.1	31	.5
0/4	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
TOTAL	1	0	29	222	897	1593	1561	1490	5793	100.0
PCT	.0	.0	.5	3.8	15.5	27.5	26.9	25.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
45/49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
40/44	.1	.7	2.1	1.2	.4	.2	.0	.0	.0	.0
35/39	3.1	5.6	6.4	2.6	2.2	1.3	.9	1.3	.0	.2
30/34	5.1	2.8	1.6	1.7	2.1	2.7	3.4	5.1	.0	.2
25/29	2.9	1.5	.6	.5	1.5	3.3	6.3	7.2	.0	.1
20/24	.8	.3	.1	.2	.7	2.7	6.1	4.1	.0	.0
15/19	.2	.1	.0	.0	.3	1.4	2.8	1.0	.0	.0
10/14	.0	.0	.0	.0	.0	.5	.9	.4	.0	.0
5/9	.0	.0	.0	.0	.0	.2	.3	.1	.0	.0
0/4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	12.2	10.9	10.9	6.1	7.2	12.3	20.7	19.2	.0	.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	43	41	39	30	17	11	5	29.5	1488
06009	44	41	39	30	18	11	6	29.5	1479
12015	44	42	39	30	17	10	4	29.6	1457
18021	45	42	39	30	17	10	7	29.5	1479
TOT	45	41	39	30	17	11	4	29.5	5903

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.8	16.0	29.1	26.3	24.9	80	1489
06009	.0	4.5	14.2	26.9	26.5	28.0	81	1456
12015	.1	5.3	16.6	26.8	27.6	23.6	80	1430
18021	.0	3.8	15.1	27.2	27.5	26.4	81	1453
TOT	1	251	898	1594	1562	1492	80	5798

JANUARY

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

TABLE 17

AREA 0002 OSV BRAVO
96.3N 91.1WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	% FOG	% FOG
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	7	.0	.1
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	18	.0	.2
10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	33	.1	.4
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.8	.0	100	.1	1.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.4	.0	133	.2	2.1
13	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.9	.3	.0	198	.3	3.1
14	.0	.0	.0	.0	.0	.0	.0	.1	.6	2.6	.1	.0	190	.1	3.1
15	.0	.0	.0	.0	.0	.0	.0	.0	1.7	2.8	.2	.0	273	.1	4.6
16	.0	.0	.0	.0	.0	.0	.0	.1	3.5	2.1	.0	.0	332	.0	5.7
17	.0	.0	.0	.0	.0	.0	.0	.1	4.6	1.0	.0	.0	334	.0	5.7
18	.0	.0	.0	.0	.0	.0	.0	.7	4.7	.2	.0	.0	328	.1	5.5
19	.0	.0	.0	.0	.0	.0	.1	2.0	3.5	.1	.0	.0	331	.0	5.6
20	.0	.0	.0	.0	.0	.2	3.8	1.7	.0	.0	.0	.0	333	.0	5.7
21	.0	.0	.0	.0	.0	.0	1.6	8.2	.7	.0	.0	.0	614	.0	10.9
22	.0	.0	.0	.0	.0	.1	8.0	3.4	.1	.0	.0	.0	564	.0	9.6
23	.0	.0	.0	.0	.0	.2	9.9	.7	.0	.0	.0	.0	786	.0	13.4
24	.0	.0	.0	.0	.0	.9	7.0	1.7	.1	.0	.0	.0	571	.0	9.7
25	.0	.0	.0	.0	.2	3.8	2.6	.1	.0	.0	.0	.0	395	.0	6.7
26	.0	.0	.0	1.0	1.8	.1	.0	.0	.0	.0	.0	.0	169	.0	2.9
27	.0	.0	.3	1.1	.1	.0	.0	.0	.0	.0	.0	.0	93	.0	1.6
28	.0	.3	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	65	.0	1.1
29	.0	.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.1
TOTAL	1	21	60	146	390	1149	1114	1240	870	135	1	5872	100.0	1.0	99.0
PCT	.4	1.0	2.5	6.6	12.7	19.6	19.0	21.1	14.8	2.3	.0	100.0	1.0	99.0	

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.2	<1	.0	.1	.0	.0	.0	.0	.2
1-2	.0	.6	.2	.0	.0	.0	.7	1-2	.0	.6	.1	.0	.0	.0	.7
3-4	.0	.7	1.6	.1	.0	.0	2.4	3-4	.0	.4	1.5	.1	.0	.0	2.0
5-6	.0	.3	1.1	.3	.0	.0	1.7	5-6	.0	.2	.8	.3	.0	.0	1.3
7	.0	.3	1.2	.7	.0	.0	2.1	7	.0	.0	.4	.7	.0	.0	1.2
8-9	.0	.1	1.0	.9	.1	.0	2.2	8-9	.0	.2	1.1	.6	.1	.0	2.0
10-11	.0	.0	.7	1.7	.2	.0	2.7	10-11	.0	.0	.5	.8	.1	.0	1.4
12	.0	.0	.2	.8	.1	.0	1.0	12	.0	.0	.1	.6	.2	.0	.9
13-16	.0	.0	.0	.0	.3	.0	1.3	13-16	.0	.0	.1	.7	.3	.0	1.5
17-19	.0	.0	.0	.2	.3	.0	.6	17-19	.0	.0	.0	.7	.5	.0	1.3
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.1	.5	.1	.8
23-25	.0	.0	.0	.1	.1	.0	.2	23-25	.0	.0	.0	.1	.4	.1	.5
26-32	.0	.0	.0	.0	.0	.1	.1	26-32	.0	.0	.0	.0	.2	.1	.3
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.1
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.1	.1
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.0	6.0	5.6	1.2	.2	15.1	TOT PCT	.1	1.6	5.0	4.8	2.4	.5	14.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3	<1	.1	.3	.0	.0	.0	.0	.4
1-2	.0	.4	.0	.0	.0	.0	.5	1-2	.0	.3	.2	.0	.0	.0	.6
3-4	.0	.2	.5	.0	.0	.0	.8	3-4	.0	.2	.1	.0	.0	.0	.5
5-6	.1	.0	.2	.1	.0	.0	.6	5-6	.0	.0	.3	.1	.0	.0	.4
7	.0	.0	.3	.2	.0	.0	.5	7	.0	.0	.2	.4	.0	.0	.6
8-9	.0	.0	.4	.4	.0	.0	.9	8-9	.0	.0	.2	.5	.1	.0	.8
10-11	.0	.0	.4	1.3	.2	.0	1.8	10-11	.0	.0	.2	.5	.0	.0	.8
12	.0	.0	.3	.8	.3	.0	1.4	12	.0	.1	.0	.4	.0	.0	.5
13-16	.0	.0	.1	1.6	.6	.0	2.3	13-16	.0	.0	.0	.5	.3	.0	.9
17-19	.0	.0	.0	.5	.6	.0	1.2	17-19	.0	.0	.0	.1	.1	.0	.2
20-22	.0	.0	.0	.2	.6	.0	.7	20-22	.0	.0	.0	.0	.0	.1	.1
23-25	.0	.0	.1	.1	.4	.1	.6	23-25	.0	.0	.0	.0	.2	.0	.2
26-32	.0	.0	.0	.1	.1	.0	.2	26-32	.0	.0	.0	.0	.1	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.1	.0	.1	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.9	2.3	5.4	2.8	.1	11.7	TOT PCT	.1	1.0	1.3	2.6	.8	.1	5.9

PERIOD: (OVER-ALL) 1963-1972

JANUARY

AREA 0002 USV BRAVO
56.5N 51.1W

TABLE 18 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5	.1	.4	.0	.0	.0	.0	.4
1-2	.1	.4	.1	.0	.0	.0	.6	.1	.4	.2	.0	.0	.0	.6
3-4	.0	.3	.5	.1	.0	.0	.9	.0	.2	.7	.1	.0	.0	1.1
5-6	.0	.1	.8	.3	.0	.0	1.2	.0	.2	.7	.4	.0	.0	1.2
7	.0	.1	.5	.1	.0	.0	.8	.0	.3	.8	.3	.0	.0	1.4
8-9	.0	.0	.3	.2	.0	.0	.5	.0	.1	.9	.3	.0	.0	1.3
10-11	.0	.0	.1	.3	.0	.0	.4	.0	.0	.5	.7	.0	.0	1.1
12	.0	.0	.1	.2	.1	.0	.5	.0	.0	.2	.5	.1	.0	.7
13-16	.0	.1	.1	.8	.2	.0	1.2	.0	.0	.1	.8	.1	.0	1.0
17-19	.0	.1	.0	.2	.3	.0	.6	.0	.0	.0	.1	.2	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.3
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.2
26-32	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1	.2
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.5	2.5	2.2	.7	.1	7.2	.1	1.6	4.0	3.2	.8	.2	9.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.1	.0	.0	.0	.4	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	.2	.2	.0	.0	.0	.4	.0	.5	.2	.0	.0	.0	.7	
3-4	.0	.8	1.0	.2	.0	.0	2.0	.0	.9	.9	.1	.0	.0	1.9	
5-6	.0	.1	.6	.2	.0	.0	.9	.0	.4	1.0	.1	.0	.0	1.5	
7	.0	.2	.9	.3	.0	.0	1.5	.0	.1	1.2	1.0	.0	.0	2.4	
8-9	.0	.2	.6	.6	.2	.0	1.6	.0	.0	.6	.9	.1	.0	1.6	
10-11	.0	.0	.3	.7	.1	.0	1.0	.0	.1	.5	.8	.2	.0	1.6	
12	.0	.0	.2	.4	.1	.0	.9	.0	.0	.2	1.6	.4	.0	2.3	
13-16	.0	.0	.2	1.1	.5	.0	1.8	.0	.0	.3	1.4	.9	.0	2.6	
17-19	.0	.0	.2	1.4	.6	.0	2.2	.0	.0	.1	.6	.7	.0	1.4	
20-22	.0	.0	.0	.5	.8	.0	1.4	.0	.0	.0	.6	.7	.0	1.3	
23-25	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.5	.7	.1	1.2	
26-32	.0	.0	.0	.0	.3	.3	.6	.0	.0	.0	.0	.6	.0	.9	
33-40	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.9	4.3	5.6	3.0	.6	15.4	.0	2.3	5.0	7.8	4.3	.4	19.8	99.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	.9	2.0	.1	.0	.0	.0	3.1	085
1-2	.1	3.3	1.2	.0	.0	.0	4.7	
3-4	.0	3.8	6.7	.8	.0	.0	11.4	
5-6	.2	1.4	5.5	1.8	.0	.0	8.9	
7	.1	1.0	5.6	3.8	.1	.0	10.5	
8-9	.0	.8	5.1	4.4	.6	.0	10.8	
10-11	.0	.1	3.1	4.9	.8	.0	10.8	
12	.0	.2	1.3	4.4	1.3	.0	8.2	
13-16	.0	.1	1.3	7.8	3.3	.0	12.6	
17-19	.0	.1	.3	3.8	3.4	.1	7.8	
20-22	.0	.0	.0	1.5	2.9	.3	4.6	
23-25	.0	.0	.1	.8	2.1	.6	3.5	
26-32	.0	.0	.0	.2	1.4	.9	2.6	
33-40	.0	.0	.0	.0	.0	.1	.2	
41-48	.0	.0	.0	.0	.1	.1	.2	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.5	12.8	30.4	37.2	16.0	2.2	100.0	2130

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	.1	2.5	2.1	2.2	1.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	464
6-7	.0	.0	1.3	3.0	5.5	7.4	5.8	4.2	3.4	.9	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	1796
8-9	.0	.0	.4	.8	3.1	3.9	5.8	5.0	6.9	3.3	2.4	1.2	.9	.0	.0	.0	.0	.0	.0	.0	1856
10-11	.0	.0	.0	.1	1.0	1.4	1.4	1.3	2.9	2.4	1.9	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	858
12-13	.0	.0	.0	.1	.3	.3	.2	.1	.3	.6	.9	.7	.7	.1	.1	.0	.0	.0	.0	.0	248
>13	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1	.9	.0	.0	.0	.0	.0	.0	.0	75
INDFT	.2	.1	.7	.6	.9	.8	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	231
TOTAL	15	11	274	381	721	872	770	598	762	406	336	198	225	5	4	0	0	0	0	0	5528
PCT	.3	.2	5.0	5.9	13.0	14.9	13.9	10.8	13.8	7.3	6.1	3.6	4.1	.1	.1	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

FEBRUARY

AREA 0002 OSV KRAVH
56.9N 51.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WFA		
N	4.6	1.4	.6	.2	48.6	.0	.0	43.8	5.9	.1	1.3	.0	.0	.2	38.8		
NE	12.1	1.6	2.7	.0	75.1	.1	.3	49.3	4.1	.0	2.3	.0	.1	.0	44.2		
E	24.5	1.3	1.5	.0	18.6	.2	.0	43.9	3.0	.0	8.7	.0	.1	.0	44.3		
SE	18.4	1.4	2.3	.0	16.8	.2	.0	76.6	5.3	.0	8.4	.0	.2	.2	49.3		
S	9.0	1.0	2.2	.0	34.2	.1	.0	45.1	6.8	.0	2.3	.2	.0	.0	45.7		
SW	1.8	.1	.3	.0	53.2	.1	.3	75.6	7.1	.0	.0	.0	.1	.0	37.1		
W	.5	.0	.1	.0	58.7	.1	.0	49.4	10.0	.1	.1	.0	.2	.1	30.0		
NW	1.0	.2	.0	.0	57.3	.1	.4	48.5	8.6	.0	.8	.0	.2	.2	31.6		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.4	.0	.0	.0	16.7	.0	.0	19.0	2.4	.0	9.5	4.8	.0	.0	44.3		
TOT PCT	6.9	.7	.9	.0	44.3	.1	.2	42.0	7.0	.0	2.4	.1	.1	.1	38.3		
TOT OBS	5281																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WFA		
0000Z	7.9	.6	.7	.1	46.8	.0	.1	45.1	6.1	.0	1.6	.2	.1	.0	36.8		
0400Z	7.0	.8	.8	.0	44.6	.3	.2	42.2	6.1	.1	1.9	.0	.2	.0	39.6		
1201Z	6.8	.5	1.4	.0	43.6	.0	.2	41.3	8.7	.0	2.7	.0	.2	.2	37.0		
1802Z	6.0	.9	.9	.0	42.1	.2	.2	49.4	7.1	.1	3.5	.1	.1	.2	39.6		
TOT PCT	6.9	.7	.9	.0	44.3	.1	.2	42.0	7.0	.0	2.4	.1	.1	.1	38.3		
TOT OBS	4285																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	1.6	7.4	4.5	7.1	.3		12.3	23.7		12.0	13.1	13.1	13.3	11.0	12.2	11.6	12.0
NE	.1	1.0	2.1	3.0	.9	.1		7.4	22.8		7.8	6.5	6.7	7.0	8.3	7.5	7.0	7.4
E	.0	.9	2.5	3.5	2.1	.3		9.3	26.0		9.0	8.9	9.4	9.6	9.3	8.9	8.6	10.4
SE	.1	1.1	7.4	3.5	1.6	.3		9.9	23.8		10.9	10.2	9.9	9.7	8.9	9.4	9.3	10.6
S	.1	1.1	7.0	3.5	1.3	.3		9.3	23.3		8.2	9.0	8.5	9.0	10.6	11.2	10.2	7.7
SW	.1	1.4	4.4	4.4	1.5	.2		12.7	22.7		13.3	13.1	12.9	11.7	11.1	12.9	12.9	13.4
W	.1	1.6	7.0	7.8	2.2	.2		19.0	23.0		19.1	19.8	18.9	18.8	18.2	19.0	19.7	18.3
NW	.1	1.7	5.7	7.0	4.4	.5		19.4	25.6		18.4	18.3	19.4	20.8	21.8	18.3	19.1	19.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8	.0	.0	.0	.0	.0		.8	.0		1.2	1.1	1.2	.2	.8	.6	.8	.6
TOT OBS	81	439	1710	1994	860	110	5298		23.7		670	664	662	660	655	656	662	660
TOT PCT	1.5	10.2	32.3	37.7	16.2	2.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	18
N	.7	3.0	3.9	4.0	.8		12.3	23.7	12.5	13.2	11.6	11.8
NE	.5	1.8	2.7	2.1	.4		7.4	22.8	7.1	6.9	7.9	7.7
E	.3	1.8	3.2	2.9	1.1		9.3	26.0	9.0	9.5	9.1	9.5
SE	.4	2.4	3.7	2.6	.8		9.9	23.8	10.6	9.8	9.2	9.9
S	.5	2.3	3.2	2.6	.5		9.3	23.3	8.6	8.8	10.9	8.9
SW	.4	3.0	5.5	3.3	.5		12.7	22.7	13.2	12.3	12.0	13.2
W	.6	4.3	8.3	5.1	.7		19.0	23.0	19.4	18.8	18.6	19.0
NW	.7	3.8	6.6	6.8	1.5		19.4	25.6	18.4	20.1	20.0	19.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8	.0	.0	.0	.0		.8	.0	1.1	.7	.7	.7
TOT OBS	281	1172	1962	1567	336	5298		23.7	1334	1322	1311	1331
TOT PCT	4.9	22.1	37.0	29.6	6.3		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

AREA 0002 NSV KRAVN
56.5N 51.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	1.1	.7	10.3	93.6	37.0	15.3	2.0	23.3	100.0	1334
06009	.7	.9	10.1	93.4	36.8	16.6	1.7	23.6	100.0	1322
12015	.7	.6	10.6	90.1	38.7	16.9	2.5	24.7	100.0	1311
18021	.7	.7	9.8	92.1	38.5	16.2	2.1	23.9	100.0	1331
TOT	.42	.39	9.39	1710	1998	860	110	23.7		5298
PCT	.8	.7	10.2	92.3	37.7	16.2	2.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.3	.5	3.1	8.4		7.2
NE	.2	.7	1.5	5.5		7.4
E	.1	.2	1.5	7.4		7.5
SE	.4	.3	1.6	7.7		7.3
S	.2	.4	2.1	6.6		7.3
SW	.3	.4	4.0	8.0		7.2
W	.3	.9	8.4	9.5		7.0
NW	.6	.9	7.6	10.5		6.9
VAR	.0	.0	.0	.0		.0
CALM	.2	.0	.3	.3		5.5
TOT OBS	128	195	1593	3377	5293	7.1
TOT PCT	2.4	3.7	30.1	63.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3000	5000	6500	8000+	NM <5/8	ANY HGT	TOTAL OBS
N	.5	.0	.7	.8	4.9	7.9	.3	.1	.1	.1	1.4		
NE	.3	.0	.3	.7	2.7	2.0	.2	.0	.0	.0	1.1		
E	.5	.0	.7	1.0	3.4	2.2	.2	.0	.1	.1	1.0		
SE	.6	.0	.5	1.1	3.0	2.3	.3	.0	.1	.1	1.7		
S	.4	.0	.7	.8	4.0	2.3	.2	.0	.0	.0	1.3		
SW	.2	.0	.1	.4	7.1	3.0	.1	.0	.0	.0	1.8		
W	.4	.0	.1	.6	10.0	5.8	.3	.0	.1	.1	1.6		
NW	.7	.0	.2	.9	8.5	6.3	.3	.1	.1	.0	2.3		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.2		
TOT OBS	194	11	120	342	2317	1485	96	10	28	30	600		5293
TOT PCT	3.7	.2	2.3	6.5	43.8	28.1	1.8	.2	.5	.6	12.5		100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
> OR >6500	.3	1.0	1.0	1.1	1.1	1.1	1.1	1.1
> OR >5000	.3	1.1	1.2	1.3	1.3	1.3	1.3	1.3
> OR >4500	1.0	2.7	2.9	3.0	3.1	3.1	3.1	3.1
> OR >4000	9.3	28.5	30.5	30.9	31.0	31.1	31.2	31.2
> OR >3500	14.7	61.0	70.8	73.5	74.5	74.8	74.9	74.9
> OR >3000	15.1	63.8	75.9	79.4	80.9	81.3	81.4	81.4
> OR >2500	15.1	64.4	77.3	81.3	83.0	83.5	83.7	83.7
> OR >2000	15.1	64.4	77.4	81.4	83.2	83.7	83.9	83.9
> OR >1500	15.2	64.5	77.9	82.2	85.0	86.7	87.5	87.5
TOTAL	802	3413	4122	4342	4501	4587	4634	4634

TOTAL NUMBER OF OBS: 5293

PCT FREQ NM <5/8: 12.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
1.7	1.0	3.1	3.9	3.3	6.2	15.6	13.9	48.2	3.7	5299

PERIOD: (PRIMARY) 1952-1972
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AREA 0002 DSV BRAVO
56.5N 51.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.2	.2	.2	.1	.3	.2	.4	.0	*	1.8	
	NO PCP	*	*	.2	.4	.1	.0	*	*	.0	.0	.8	
	TOT %	.2	.2	.4	.6	.2	.3	.3	.5	.0	*	2.6	
1/2<1	PCP	.4	.2	.2	.1	.3	.3	.4	.6	.0	.0	2.5	
	NO PCP	*	*	.1	.1	.0	.0	.0	.1	.0	*	.4	
	TOT %	.4	.3	.3	.2	.4	.3	.4	.7	.0	*	2.9	
1<2	PCP	.6	.3	.4	.5	.5	.6	.6	.6	.0	*	4.1	
	NO PCP	.1	*	*	.1	.1	*	*	.1	.0	*	.5	
	TOT %	.7	.4	.4	.6	.5	.7	.6	.7	.0	*	4.6	
2<5	PCP	1.4	.9	1.3	1.2	1.2	2.0	2.5	2.0	.0	*	12.5	
	NO PCP	.1	*	.3	.3	.2	.1	.1	.3	.0	*	1.3	
	TOT %	1.4	1.0	1.5	1.5	1.4	2.1	2.6	2.2	.0	.1	13.8	
5<10	PCP	3.7	1.9	2.0	1.5	1.9	3.5	7.0	6.9	.0	.1	28.5	
	NO PCP	3.1	1.9	2.9	3.1	3.0	3.3	4.7	4.4	.0	.3	26.7	
	TOT %	6.8	3.8	4.9	4.6	4.9	6.8	11.7	11.3	.0	.4	55.2	
10+	PCP	.5	.1	.1	.1	.1	.3	.5	.8	.0	.0	2.6	
	NO PCP	2.9	1.7	1.7	2.4	1.7	2.7	2.8	3.3	.0	.3	18.3	
	TOT %	2.8	1.8	1.8	2.5	1.8	2.9	3.4	4.1	.0	.3	20.9	
TOT OBS													5283
TOT PCT		12.3	7.3	9.3	9.9	9.3	12.7	19.0	19.5	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.1	*	*	*	*	*	*	.0	*	.2	
	11-21	*	*	.2	.2	.1	.1	*	.1	.0		.8	
	22+	.1	.1	.2	.3	.1	.2	.2	.3	.0		1.6	
	TOT %	.2	.2	.4	.6	.2	.3	.3	.5	.0	*	2.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	*	*	*	*	*	*	.0	*	.1	
	11-21	.1	*	.1	.1	.1	.1	.1	.1	.0		.6	
	22+	.3	.2	.2	.1	.2	.2	.2	.6	.0		2.1	
	TOT %	.4	.3	.3	.2	.4	.3	.4	.7	.0	*	2.9	
1<2	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	.1	.1	*	.0	*	*	*	.1	.0	*	.3	
	11-21	.1	.1	.1	.2	.1	.2	.2	.2	.0		1.2	
	22+	.4	.2	.3	.4	.4	.5	.4	.4	.0		3.0	
	TOT %	.7	.4	.4	.6	.5	.7	.6	.7	.0	*	4.6	
2<5	0-3	*	.0	.0	.0	.0	.0	*	.0	.0	.1	.1	
	4-10	.1	.1	*	.1	.1	.1	.2	.1	.0		.9	
	11-21	.4	.2	.2	.4	.3	.7	.8	.5	.0		3.4	
	22+	.9	.7	1.3	1.0	1.0	1.2	1.7	1.7	.0		9.4	
	TOT %	1.5	1.0	1.5	1.5	1.4	2.0	2.6	2.2	.0	.1	13.8	
5<10	0-3	.1	*	*	*	.1	*	*	.1	.0	.4	.8	
	4-10	.7	.4	.4	.5	.6	.8	1.0	.8	.0		5.3	
	11-21	2.0	1.1	1.1	1.5	1.5	2.7	4.2	3.1	.0		17.2	
	22+	4.0	2.2	3.4	2.4	2.7	3.3	6.5	7.4	.0		31.9	
	TOT %	6.8	3.8	4.9	4.6	4.9	6.8	11.7	11.3	.0	.4	55.1	
10+	0-3	*	*	*	*	*	.1	.1	*	.0	.3	.6	
	4-10	.6	.4	.4	.4	.3	.4	.4	.7	.0		3.5	
	11-21	1.0	.8	.8	1.1	.9	1.0	1.7	1.8	.0		9.0	
	22+	1.1	.6	.6	1.0	.6	1.1	1.2	1.7	.0		7.9	
	TOT %	2.8	1.8	1.8	2.5	1.8	2.5	3.4	4.1	.0	.3	21.0	
TOT OBS													5293
TOT PCT		12.3	7.3	9.3	9.9	9.3	12.7	19.0	19.5	.0	.8	100.0	

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PERIOD: (PRIMARY) 1952-1972
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TABLE 10

AREA 0002 OSV BRAVO
56.5N 51.0W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	3.4	.2	1.7	6.1	43.6	26.6	1.3	.4	.3	.7	84.3	15.7	1334
06009	3.3	.0	1.4	6.1	42.1	29.7	1.8	.0	1.0	.8	86.2	13.8	1321
12015	3.8	.3	3.3	6.3	44.2	28.0	2.6	.0	.5	.7	89.2	10.8	1311
18021	4.1	.3	2.7	7.4	45.3	27.9	1.5	.4	.3	.5	90.4	9.6	1331
TOT	195	11	120	342	2320	1485	96	10	28	30	4637	660	5297
PCT	3.7	.2	2.3	6.5	43.6	28.0	1.8	.2	.5	.6	87.5	12.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	2.2	2.7	4.0	13.3	58.8	19.0	1334
06009	2.0	2.5	4.5	15.5	56.7	18.9	1322
12015	2.5	3.5	5.0	12.7	53.1	23.2	1310
18021	3.5	2.8	5.0	14.0	51.9	22.7	1331
TOT	136	152	246	795	2919	1109	5297
PCT	2.6	2.9	4.6	13.9	55.1	20.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	3.5	7.4	25.7	59.2	15.1	1333
06009	3.3	6.7	27.4	59.7	12.9	1321
12015	3.8	9.3	27.3	63.1	9.5	1309
18021	4.1	9.5	29.0	62.1	8.9	1330
TOT	195	437	1449	3230	614	5293
PCT	3.7	8.3	27.4	61.0	11.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/34	*	.0	.0	.0	.0	.0	.0	.0	1	*
45/49	*	.0	.0	.0	.0	.0	.0	.0	1	*
40/44	.0	.0	.0	.0	.0	.2	1.8	3.4	264	5.4
35/39	.0	.0	*	.1	1.0	3.1	6.3	11.0	1128	21.6
30/34	.0	.0	*	1.2	4.3	7.4	7.4	6.4	1398	26.7
25/29	.0	*	.1	1.1	4.8	8.2	5.2	3.9	1215	23.2
20/24	.0	.0	.2	.7	2.4	5.2	4.4	1.4	749	14.3
15/19	.0	.0	*	.2	1.0	2.0	2.9	.8	361	6.9
10/14	.0	.0	.0	*	.2	.2	.7	.5	83	1.6
5/9	.0	.0	.0	.0	.0	.1	.1	*	9	.2
TOTAL	2	1	19	173	713	1379	1506	1436	5229	100.0
PCT	*	*	.4	3.3	13.6	26.4	28.8	27.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	*	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	*
.1	.4	1.9	2.2	.5	.2	*	*	.0	*
2.7	2.7	5.1	4.8	2.9	1.2	.8	1.2	.0	.2
5.4	2.9	1.6	2.1	2.6	2.5	2.9	6.3	.0	.4
3.4	1.3	.6	.7	2.1	3.4	5.3	6.3	.0	.1
.7	.1	.2	.1	.7	2.9	5.5	4.1	.0	.1
*	.0	*	*	.3	1.7	3.3	1.5	.0	*
.0	.0	.0	.0	*	.5	.9	.1	.0	*
.0	.0	.0	.0	*	.1	.1	.0	.0	.0
12.4	7.5	9.3	9.9	9.2	12.6	18.8	19.5	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	50	41	39	30	18	12	7	29.5	1335
06009	43	41	40	30	17	12	7	29.4	1322
12015	43	41	40	30	18	13	7	29.6	1311
18021	43	41	40	30	18	13	6	29.7	1331
TOT	50	41	40	30	18	12	6	29.6	5299

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.2	4.4	13.1	26.6	27.6	28.1	81	1318
06009	.0	3.4	14.9	25.6	29.1	27.0	81	1307
12015	.0	3.7	13.8	24.8	30.4	27.3	81	1294
18021	.0	3.3	12.8	28.3	28.0	27.6	81	1313
TOT	2	193	713	1379	1506	1439	81	5232

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

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TABLE 17

APCA 0002 OSV BRAVO
56.5N 51.0W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	05 08	09 12	13 16	17 20	21 24	23 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	H FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	15	.0	.3
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	19	.1	.3
5	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	.0	39	.1	.6
4	.0	.0	.0	.0	.0	.0	.0	.0	.6	.3	.0	.0	57	.1	1.0
3	.0	.0	.0	.0	.0	.0	.0	*	1.4	1.1	.0	.0	129	.4	2.1
2	.0	.0	.0	.0	.0	.0	.0	.3	2.8	.2	.0	.0	170	.3	3.0
1	.0	.0	.0	.0	.0	.0	.0	.8	4.1	.1	.0	.0	265	.4	4.7
0	.0	.0	.0	.0	.0	.0	*	1.2	2.3	.0	.0	.0	194	.5	3.3
-1	.0	.0	.0	.0	.0	.0	.0	* 2.7	2.0	*	.0	.0	245	.1	4.6
-2	.0	.0	.0	.0	.0	.0	.2	3.4	.6	.0	.0	.0	219	.1	4.1
-3	.0	.0	.0	.0	.0	.0	.4	4.1	.1	.0	.0	.0	243	.2	4.5
-4	.0	.0	.0	.0	.0	*	1.4	3.3	*	.0	.0	.0	260	.1	4.9
-5	.0	.0	.0	.0	.0	.2	2.8	2.3	.0	.0	.0	.0	286	*	5.5
-6	.0	.0	.0	.0	.0	.4	4.8	.7	.0	.0	.0	.0	307	*	5.9
-7/-8	.0	.0	.0	.0	.0	2.0	8.4	.2	.0	.0	.0	.0	331	.0	10.6
-9/-10	.0	.0	.0	.0	.2	6.2	3.3	*	.0	.0	.0	.0	306	.0	9.7
-11/-13	.0	.0	.0	.0	2.0	8.4	.2	.0	.0	.0	.0	.0	331	.0	10.6
-14/-16	.0	.0	.0	.9	7.4	1.1	.0	.0	.0	.0	.0	.0	488	.0	9.4
-17/-19	.0	.0	.2	4.5	2.3	.0	.0	.0	.0	.0	.0	.0	363	.0	7.0
-20/-22	.0	.0	1.3	2.3	*	.0	.0	.0	.0	.0	.0	.0	190	.0	3.6
-23/-25	.0	.3	1.2	*	.0	.0	.0	.0	.0	.0	.0	.0	78	.0	1.5
-26/-30	.1	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	.0	.6
<-30	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	7	39	140	402	620	954	1019	154	3.0	1	1	1	3207	121	5086
PCT	.1	.7	2.7	7.7	11.9	18.3	21.4	19.5	14.5	3.0	*	*	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.4	.0	.0	.0	.0	.4	.1	.1	.0	.0	.0	.0	.2
1-2	.0	.1	.2	.0	.0	.0	.3	.0	.3	.1	.0	.0	.0	.4
3-4	.0	.2	.7	.1	.0	.0	1.0	.0	.2	.9	.1	.0	.0	1.2
5-6	.0	*	.5	.1	.0	.0	.6	.0	.1	.2	.1	.0	.0	.4
7	.0	.2	.5	.1	.1	.0	.8	.0	.2	.5	.3	.0	.0	.9
8-9	.0	.0	.7	.3	.0	.0	1.0	.0	.0	.3	.3	.0	.0	.6
10-11	.0	.0	.7	.8	.1	.0	1.6	.0	.0	.5	.5	.1	.0	1.1
12	.0	.0	.3	.6	.2	.0	1.1	.0	.1	.3	.7	.1	.0	1.1
13-16	.0	.0	.1	.8	.2	.0	1.2	.0	.0	.1	.7	.2	.0	1.0
17-19	.0	.0	.1	1.0	.8	.1	2.0	.0	.0	.1	.1	.1	.0	.2
20-22	.0	.0	.0	.3	.3	.1	.7	.0	.0	.0	.1	.1	.1	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	3.7	4.1	1.7	.2	10.7	.1	.8	3.0	2.8	.7	.1	7.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.2	.1	.0	.0	.0	.3	.0	.2	.1	.0	.0	.0	.3
3-4	.0	.0	.3	*	.0	.0	.4	.0	.2	.6	.1	.0	.0	.8
5-6	.0	*	.2	.3	.0	.0	.7	.0	.1	.7	.3	.0	.0	1.0
7	.0	.1	.4	.4	.1	.0	.9	.0	.1	1.1	1.1	.0	.0	2.3
8-9	.0	.0	*	.2	.1	.0	.2	.0	.1	.4	.7	.1	.0	1.2
10-11	.0	.0	.4	.6	.1	.0	1.1	.0	.0	.1	.8	.3	.0	1.3
12	.0	.0	.1	.3	.3	.0	.7	.0	.0	*	.5	.3	.0	.8
13-16	.0	.1	.1	.6	.5	*	1.3	.0	.0	.1	1.1	.4	.1	1.7
17-19	.0	.0	*	.2	.5	.0	.8	.0	.0	.0	.3	.7	.1	1.0
20-22	.0	.0	.0	.1	.6	.2	.9	.0	.0	.0	.1	.4	.1	.6
23-25	.0	.0	.0	.0	*	.1	.2	.0	.0	.0	.0	.0	.1	.1
26-32	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.1
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	1.6	2.8	2.3	.4	7.8	.0	.8	3.1	4.9	2.2	.4	11.4

PERIOD: (OVER-ALL) 1963-1972

FEBRUARY

AREA 0002 DSV BRAVO
56.5N 51.0W

TABLE 18 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.1	.0	.0	.0	.4	.1	.1	.0	.0	.0	.0	.2
1-2	.0	.2	.3	.0	.0	.0	.5	.0	.1	.1	.0	.0	.0	.2
3-4	.0	.1	.4	.0	.0	.0	.5	.0	.5	.5	.1	.0	.0	1.0
5-6	.0	.3	.6	.1	.0	.0	1.0	.0	.1	.9	.3	.0	.0	1.3
7	.0	.1	.9	.6	.0	.0	1.6	.0	.1	1.4	.3	.0	.0	1.8
8-9	.0	.0	.5	.5	.0	.0	1.0	.0	.1	.4	.6	.0	.0	1.1
10-11	.0	.0	.2	1.0	.1	.0	1.3	.0	.1	.7	.9	.1	.0	1.7
12	.0	.0	.1	.7	.1	.0	.9	.0	.0	.3	.9	.1	.0	1.3
13-16	.0	.0	.1	.8	.3	.0	1.3	.0	.0	.2	.8	.3	.0	1.4
17-19	.0	.0	.0	.5	.4	.0	.9	.0	.0	.1	.4	.6	.1	1.0
20-22	.0	.0	.1	.1	.5	.0	.7	.0	.0	.1	.1	.5	.1	.7
23-25	.0	.0	.0	.1	.2	.1	.3	.0	.0	.0	.1	.2	.0	.3
26-32	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.1	.2
33-40	.0	.0	.0	.0	.2	.2	.3	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.9	3.4	4.4	1.8	.2	10.9	.1	1.0	4.5	4.4	1.9	.2	12.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	.3	.0	.0	.0	.0	.3	
1-2	.1	.3	.0	.0	.0	.0	.3	.0	.4	.3	.0	.0	.0	.7	
3-4	.0	.4	.7	.1	.0	.0	1.2	.0	.4	.8	.0	.0	.0	1.1	
5-6	.0	.3	1.0	.1	.0	.0	1.4	.0	.0	.9	.1	.0	.0	1.0	
7	.1	.0	2.3	.7	.0	.0	3.1	.0	.1	1.0	.5	.1	.0	1.7	
8-9	.0	.1	1.2	1.3	.0	.0	2.6	.0	.1	.5	.8	.0	.0	1.3	
10-11	.0	.1	1.6	2.1	.0	.0	3.8	.0	.1	.8	1.3	.1	.0	2.2	
12	.0	.1	.5	1.1	.1	.0	1.8	.0	.0	.6	1.4	.2	.0	2.1	
13-16	.0	.0	.3	3.3	.2	.0	3.8	.0	.0	.2	1.6	1.0	.1	2.9	
17-19	.0	.0	.1	.9	.5	.0	1.5	.0	.0	.0	1.0	1.6	.1	2.7	
20-22	.0	.0	.0	.1	.3	.1	.5	.0	.0	.0	.3	1.0	.0	1.2	
23-25	.0	.0	.0	.1	.2	.1	.3	.0	.0	.0	.0	.4	.2	.6	
26-32	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.3	.2	.5	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.4	7.8	9.7	1.5	.1	20.7	.0	1.3	5.1	6.9	4.5	.5	18.4	99.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	.8	1.9	.1	.0	.0	.0	2.7	085
1-2	.1	1.7	1.2	.0	.0	.0	3.0	
3-4	.0	1.9	4.8	.5	.0	.0	7.3	
5-6	.0	.8	5.0	1.6	.0	.0	7.4	
7	.1	.8	8.1	4.0	.2	.0	13.2	
8-9	.0	.3	4.0	4.7	.2	.0	9.1	
10-11	.0	.2	5.1	8.0	.9	.0	14.1	
12	.0	.1	2.2	6.2	1.3	.0	9.7	
13-16	.0	.1	1.3	9.7	3.2	.2	14.4	
17-19	.0	.0	.3	4.2	5.1	.3	9.9	
20-22	.0	.0	.1	1.0	3.8	.6	5.6	
23-25	.0	.0	.0	.3	1.1	.5	1.9	
26-32	.0	.0	.0	.0	.7	.4	1.1	
33-40	.0	.0	.0	.0	.2	.3	.5	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	7.8	32.2	40.1	16.7	2.2	100.0	1931

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.1	.3	2.1	1.9	2.0	.6	.4	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	374
6-7	.0	.0	.6	2.4	6.2	6.8	6.0	2.8	3.0	.7	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	1406
8-9	.0	.0	.2	.6	3.7	4.8	8.1	6.5	8.7	4.2	1.9	.8	.4	.0	.0	.0	.0	.0	.0	.0	1914
10-11	.0	.0	.1	.3	.8	1.0	1.5	1.7	2.6	3.5	2.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	730
12-13	.0	.0	.0	.0	.1	.1	.1	.0	.2	.6	.6	.5	.9	.0	.0	.0	.0	.0	.0	.0	156
>13	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	4.5
INDET	.1	.0	.9	.6	1.0	.5	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	192
TOTAL	11	15	195	278	669	669	797	547	713	443	237	109	111	9	0	0	0	0	0	0	4803
PCT	.2	.3	4.1	5.8	13.9	13.9	16.6	11.4	14.8	9.2	4.9	2.3	2.3	.2	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

MARCH

AREA 0002 OSV BRAVO
96.5N 51.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
N	4.7	.6	.8	.0	38.5	.1	.3	43.4	6.0	.0	.2	.0	.1	.2	50.1
NE	15.4	2.5	2.2	.1	22.2	.3	.5	40.5	4.1	.0	3.4	.1	.0	.1	51.8
E	21.8	3.4	4.4	.0	13.0	.1	.2	39.4	4.6	.1	8.8	.3	.0	.0	46.8
SE	21.7	1.9	4.5	.0	18.3	.4	.0	44.6	3.9	.1	3.2	.0	.0	.1	48.1
S	10.5	1.3	2.4	.0	26.8	.7	.0	40.4	6.3	.0	3.9	.0	.0	.3	49.0
SW	3.7	.9	.3	.0	39.5	.1	.0	42.9	4.8	.0	1.7	.0	.0	.0	50.6
W	1.4	.1	.4	.0	48.0	.1	.3	40.0	9.8	.0	1.5	.0	.0	.1	38.6
NW	1.3	.3	.3	.0	54.7	.2	.5	57.1	9.9	.0	.2	.0	.0	.1	32.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	17.9	.0	.0	17.9	5.1	.0	.0	.0	.0	.0	76.9
TOT PCT	8.7	1.3	1.7	*	35.2	.2	.3	45.8	6.6	*	2.6	.1	*	.1	44.8
TOT OBS:	5765														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WFA
00003	9.1	1.5	1.7	.0	34.6	.1	.1	45.2	6.6	.0	1.7	.0	.1	.0	46.5
06009	10.8	1.6	1.5	.0	34.1	.1	.2	47.0	6.6	.1	1.5	.0	.0	.1	44.7
12015	7.9	.6	1.7	.0	36.0	.3	.3	45.9	6.8	.0	3.6	.1	.0	.2	43.4
18021	7.1	1.3	1.8	.1	36.3	.2	.5	45.4	6.5	.0	3.5	.1	.0	.2	44.3
TOT PCT	8.7	1.3	1.7	*	35.3	.2	.3	45.9	6.6	*	2.6	.1	*	.1	44.7
TOT OBS:	5780														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	1.9	5.0	5.2	7.4	.2		14.9	22.8		15.0	14.8	16.5	15.8	14.8	13.3	14.3	15.1
NE	.1	1.8	4.0	4.6	2.3	.4		13.3	23.8		12.9	10.4	12.1	15.2	14.9	13.3	13.2	14.1
E	.1	1.5	5.1	4.2	2.3	.3		13.4	22.9		14.8	15.1	13.2	11.1	12.7	13.6	13.6	13.1
SE	.1	1.2	7.7	1.8	.8	.1		6.7	20.5		6.7	7.1	6.5	7.7	6.5	6.6	6.0	6.5
S	.2	1.4	3.0	2.1	.9	*		7.9	20.4		7.7	6.9	8.3	7.5	8.1	9.1	7.9	7.8
SW	.2	1.6	3.6	2.8	.9	.2		9.2	20.4		9.4	9.6	9.9	9.8	9.7	8.7	9.0	7.8
W	.2	1.9	4.8	4.5	1.4	.2		13.0	21.3		12.1	14.1	12.6	12.8	13.0	12.2	13.9	13.6
NW	.1	2.1	6.3	9.0	3.0	.2		20.9	23.6		20.6	21.4	20.1	19.1	19.9	22.3	21.7	21.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0		.8	.6	.8	1.1	.6	.8	.3	.4
TOT OBS	103	784	1991	2005	810	95	5788		22.2		729	723	719	724	720	724	724	725
TOT PCT	1.8	13.5	34.4	34.6	14.0	1.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12
N	.6	3.9	5.6	4.0	.8		14.9	22.8	14.9	16.1	14.0	14.7
NE	.7	3.3	4.5	3.6	1.2		13.3	23.8	11.7	13.7	14.1	13.6
E	.6	4.0	4.4	3.6	.9		13.4	22.9	15.0	12.1	13.2	13.4
SE	.4	2.2	2.4	1.4	.3		6.7	20.5	6.9	7.1	6.6	6.3
S	.7	2.2	2.9	1.8	.3		7.9	20.4	7.3	7.9	8.6	7.9
SW	.7	2.9	3.4	1.8	.4		9.2	20.4	9.5	9.8	9.2	8.4
W	.8	3.6	5.0	3.0	.6		13.0	21.3	13.1	12.7	12.6	13.7
NW	.9	4.3	8.1	6.6	.9		20.9	23.6	21.0	19.6	21.1	21.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.7						.7	.0	.7	1.0	.7	.3
TOT OBS	352	1527	2111	1494	304	5788		22.2	1452	1443	1444	1449
TOT PCT	6.1	26.4	36.5	25.8	5.3		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	.7	1.1	14.6	35.7	32.6	13.7	1.7	21.9	100.0	1452
06009	1.0	1.2	12.9	34.4	34.7	14.4	1.4	22.2	100.0	1443
12015	.7	1.2	12.5	33.7	34.9	15.3	1.8	22.7	100.0	1444
18021	.3	.9	14.2	33.8	36.4	12.6	1.7	22.1	100.0	1449
TOT	99	64	784	1991	2003	810	95	22.2		5788
PCT	.7	1.1	13.5	34.4	34.6	14.0	1.6	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.3	.6	4.4	9.6		7.2
NE	.6	.4	2.4	9.8		7.2
E	.4	.4	2.1	10.5		7.4
SE	.1	.2	1.0	5.4		7.5
S	.4	.2	1.8	5.6		7.1
SW	.2	.4	3.1	5.5		7.1
W	.3	.6	5.5	6.7		6.9
NW	.3	.9	9.5	10.2		6.9
VAR	.0	.0	.0	.0		.0
CALM	.1	.0	.1	.5		7.0
TOT OBS	161	214	1724	3685	5784	7.1
TOT PCT	2.8	3.7	29.8	63.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	000 149	150 290	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.6	4.4	9.6		7.2	.5	.0	.2	.8	4.9	6.3	.4	*	.1	*	1.8	
NE	.6	.4	2.4	9.8		7.2	.8	*	.4	1.5	4.3	3.7	.3	*	*	*	2.1	
E	.4	.4	2.1	10.5		7.4	.9	.1	.8	1.7	4.7	3.2	.3	*	*	.1	1.8	
SE	.1	.2	1.0	5.4		7.5	.3	.0	.4	.9	2.3	1.5	.2	.1	.1	*	1.0	
S	.4	.2	1.8	5.6		7.1	.3	*	.2	.8	3.2	1.9	.2	*	.1	*	1.2	
SW	.2	.4	3.1	5.5		7.1	.3	*	.1	.5	3.4	3.3	.1	*	.1	*	1.4	
W	.3	.6	5.5	6.7		6.9	.4	.0	.1	.7	5.0	5.0	.1	*	.0	*	1.6	
NW	.3	.9	9.5	10.2		6.9	.4	.0	.2	.8	8.2	8.6	.4	.1	.0	*	2.1	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.1	.5		7.0	*	.0	.0	*	.1	.3	.1	.0	*	*	.2	
TOT OBS	161	214	1724	3685	5784	7.1	224	4	136	447	2080	1937	115	20	24	17	758	5784
TOT PCT	2.8	3.7	29.8	63.7	100.0		3.9	.1	2.4	7.7	36.0	33.8	2.0	.3	.4	.3	13.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.2	.7	.7	.7	.7	.7	.7	.7
= OR >5000	.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	1.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0
= OR >2000	13.9	35.3	36.6	36.8	36.9	36.9	36.9	36.9
= OR >1000	20.0	64.5	70.8	72.0	72.7	72.8	72.8	72.8
= OR >600	20.4	67.5	76.8	79.1	80.2	80.5	80.6	80.6
= OR >300	20.4	67.9	78.0	80.8	82.4	82.9	82.9	82.9
= OR >150	20.4	67.9	78.1	80.8	82.4	83.0	83.0	83.0
= OR >0	20.4	68.0	78.4	81.6	84.1	86.1	86.9	86.9
TOTAL	1182	3944	4546	4732	4880	4994	5039	5041

TOTAL NUMBER OF OBS: 5801

PCT FREQ NH <5/8: 13.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
1.0	1.1	4.2	3.9	2.9	6.1	14.6	13.6	48.8	3.8	5805

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.5	.2	.2	.1	.1	.1	.2	.0	*	1.8	
	NO PCP	.0	.2	.4	.1	.1	.1	.2	*	.0	.0	1.0	
	TOT %	.3	.6	.6	.3	.3	.2	.3	.2	.0	*	2.8	
1/2<1	PCP	.2	.2	.4	.3	.2	.2	.2	.4	.0	.0	2.2	
	NO PCP	.1	*	.1	.1	*	*	*	.1	.0	.0	.4	
	TOT %	.3	.3	.5	.3	.2	.2	.3	.4	.0	.0	2.6	
1<2	PCP	.4	.5	.4	.3	.2	.2	.5	.5	.0	.0	2.9	
	NO PCP	*	.1	.2	*	*	*	*	*	.0	.0	.4	
	TOT %	.4	.6	.6	.3	.2	.2	.5	.5	.0	.0	3.3	
2<5	PCP	1.2	1.2	1.7	.8	.6	.8	1.2	2.0	.0	*	9.6	
	NO PCP	.1	.2	.6	.1	.1	*	.1	.1	.0	*	1.2	
	TOT %	1.3	1.4	2.3	.9	.8	.9	1.2	2.1	.0	*	10.8	
5<10	PCP	4.1	2.4	2.4	1.3	1.8	2.3	4.1	8.1	.0	.1	26.8	
	NO PCP	4.7	3.8	3.5	1.7	2.1	2.2	3.4	4.6	.0	.1	26.1	
	TOT %	8.8	6.4	5.9	3.1	3.9	4.5	7.4	12.7	.0	.2	52.8	
10+	PCP	.2	.3	.1	.1	.3	.3	.5	.8	.0	*	2.6	
	NO PCP	3.5	3.6	3.4	1.8	2.3	2.9	2.9	4.2	.0	.4	25.1	
	TOT %	3.7	3.9	3.5	1.9	2.6	3.2	3.4	5.0	.0	.5	27.6	
TOT OBS													5768
TOT PCT		14.9	13.2	13.4	6.7	7.9	9.2	13.1	20.9	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	*	*	.0	.0	*	.0	.0	*	.1	
	4-10	.0	.1	*	*	.1	.1	.1	*	.0	*	.4	
	11-21	.1	.1	.2	.1	.1	.1	.1	*	.0	*	.8	
	22+	.2	.4	.3	.2	.1	.1	.1	.2	.0	*	1.5	
	TOT %	.3	.6	.6	.3	.3	.2	.3	.2	.0	*	2.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	4-10	*	.1	*	*	*	*	.1	*	.0	*	.3	
	11-21	*	*	.2	.2	.1	.1	.1	.1	.0	*	.7	
	22+	.2	.2	.3	.2	.1	.1	.1	.3	.0	*	1.6	
	TOT %	.3	.3	.5	.3	.2	.2	.3	.4	.0	.0	2.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	*	*	*	*	.1	*	.0	*	.2	
	11-21	.1	.1	.2	*	*	.1	.1	.1	.0	*	.7	
	22+	.3	.5	.3	.2	.2	.1	.3	.4	.0	*	2.4	
	TOT %	.4	.6	.6	.3	.2	.2	.5	.5	.0	.0	3.3	
2<5	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	.1	.1	.1	.1	.1	.1	.1	*	.0	*	.7	
	11-21	.3	.2	.5	.2	.1	.2	.3	.5	.0	*	2.5	
	22+	.9	1.0	1.6	.6	.5	.5	.8	1.5	.0	*	7.5	
	TOT %	1.3	1.4	2.3	.9	.8	.9	1.2	2.1	.0	*	10.8	
5<10	0-3	.1	*	*	.1	.1	.1	.1	*	.0	.2	.7	
	4-10	1.0	.7	.6	.5	.6	.7	1.0	.0	.0	*	5.5	
	11-21	2.9	1.8	2.1	1.4	1.5	1.8	2.6	3.4	.0	*	17.5	
	22+	4.9	3.8	3.2	1.1	1.7	2.0	4.0	8.3	.0	*	29.0	
	TOT %	8.8	6.4	5.9	3.0	3.8	4.5	7.4	12.6	.0	.2	52.7	
10+	0-3	.1	.1	*	*	.1	.1	.1	.1	.0	.4	1.0	
	4-10	.8	.9	.7	.6	.6	.8	1.0	1.1	.0	*	6.4	
	11-21	1.7	1.7	1.8	.8	1.1	1.3	1.5	2.3	.0	*	12.3	
	22+	1.2	1.3	.9	.4	.8	1.0	.9	1.6	.0	*	8.2	
	TOT %	3.8	4.0	3.5	1.9	2.6	3.2	3.4	5.0	.0	.4	27.8	
TOT OBS													5784
TOT PCT		15.0	13.3	13.4	6.7	7.9	9.2	13.0	20.8	.0	.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	3.0	.1	2.2	6.5	35.2	33.5	1.7	.1	.5	.1	82.9	17.1	1456
06009	2.8	.0	1.6	7.9	35.4	38.0	1.6	.3	.4	.7	86.8	11.2	1449
12015	4.9	.3	3.0	8.7	35.6	32.5	2.8	.5	.3	.3	88.7	11.3	1448
18021	4.7	.1	2.6	8.0	37.5	31.4	1.9	.5	.4	.1	87.2	12.8	1451
TOT	224	6	136	451	2085	1964	116	20	24	17	5043	761	5804
PCT	3.9	.1	2.3	7.8	35.9	33.8	2.0	.3	.4	.3	86.9	13.1	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.4	2.3	2.6	11.2	55.8	25.7	1455
06009	2.1	1.4	3.0	11.0	58.2	24.2	1449
12015	3.2	3.7	4.2	11.2	47.7	30.0	1448
18021	3.5	2.9	3.5	9.6	48.9	31.6	1452
TOT	162	149	194	624	3056	1619	5804
PCT	2.8	2.6	3.3	10.8	52.7	27.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	3.0	6.7	21.0	62.4	16.6	1455
06009	2.8	5.2	20.6	68.6	10.8	1449
12015	4.9	10.4	26.1	63.4	10.5	1447
18021	4.7	9.0	24.0	63.7	12.3	1450
TOT	224	454	1329	3742	730	5801
PCT	3.9	7.8	22.9	64.5	12.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	.0	.0	.0	4	.1
40/44	.0	.0	.0	.1	.1	.4	1.3	3.5	313	5.4
35/39	.0	.0	.1	.7	2.7	6.0	9.7	14.5	1939	33.7
30/34	.0	.0	.1	1.5	6.3	9.4	8.8	6.4	1866	32.4
25/29	.0	.0	.1	1.2	4.2	7.3	4.6	3.0	1171	20.3
20/24	.0	.0	.2	.5	1.2	2.3	1.8	.6	378	6.6
15/19	.0	.0	.0	.1	.2	.2	.5	.3	75	1.3
10/14	.0	.0	.0	.0	.0	.0	.1	.1	9	.2
5/9	.0	.0	.0	.0	.0	.0	.0	.1	3	.1
TOTAL	0	0	25	230	845	1481	1540	1637	5758	100.0
PCT	.0	.0	.4	4.0	14.7	25.7	26.7	28.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
45/49	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
40/44	.2	.7	2.4	1.0	.6	.3	.1	.1	.0	.0
35/39	3.9	7.9	8.5	3.9	3.4	1.9	1.7	2.1	.0	.3
30/34	7.1	3.5	2.2	1.3	2.7	3.7	3.4	8.3	.0	.2
25/29	3.3	1.0	.4	.3	.9	2.3	4.7	7.3	.0	.1
20/24	.5	.2	.0	.0	.2	.9	1.9	2.8	.0	.0
15/19	.0	.0	.0	.0	.0	.1	.8	.3	.0	.0
10/14	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
5/9	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
TOTAL	15.0	13.3	13.5	6.7	7.9	9.2	12.9	20.9	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	46	41	40	33	27	18	7	32.1	1456
06009	45	41	39	33	22	18	11	32.0	1450
12015	45	41	40	33	23	18	10	32.4	1449
18021	44	41	40	33	23	18	8	32.6	1453
TOT	46	41	40	33	23	18	7	32.3	5808

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.4	14.4	25.1	28.1	27.0	80	1445
06009	.0	4.2	14.0	26.4	26.3	29.2	81	1442
12015	.0	4.4	14.7	24.9	26.0	30.0	81	1439
18021	.0	3.7	13.6	26.5	26.6	27.6	81	1445
TOT	0	255	846	1485	1544	1641	81	5771

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TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	04 04	09 12	13 16	17 20	21 24	23 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	12	.0	.2
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	15	.0	.2
5	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	.0	40	.1	.6
4	.0	.0	.0	.0	.0	.0	.0	.0	.5	.3	.0	49	.1	.7
3	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.4	.0	138	.3	1.9
2	.0	.0	.0	.0	.0	.0	.0	.1	4.1	.1	.0	249	.4	3.9
1	.0	.0	.0	.0	.0	.0	.0	.7	4.5	.1	.0	309	.5	4.8
0	.0	.0	.0	.0	.0	.0	.0	2.1	5.8	.1	.0	463	.3	7.7
-1	.0	.0	.0	.0	.0	.0	.0	4.1	3.8	.0	.0	459	.4	7.6
-2	.0	.0	.0	.0	.0	.0	.2	6.7	1.0	.0	.0	434	.1	7.8
-3	.0	.0	.0	.0	.0	.0	.7	7.3	.4	.0	.0	483	.0	8.3
-4	.0	.0	.0	.0	.0	.0	1.5	4.7	.2	.0	.0	366	.0	6.3
-5	.0	.0	.0	.0	.0	.1	4.1	1.2	.1	.0	.0	373	.0	6.5
-6	.0	.0	.0	.0	.0	.2	5.3	.7	.0	.0	.0	361	.0	6.3
-7/-8	.0	.0	.0	.0	.0	.0	2.3	7.3	.5	.0	.0	598	.0	10.3
-9/-10	.0	.0	.0	.0	.1	6.0	2.7	.1	.0	.0	.0	511	.0	8.9
-11/-13	.0	.0	.0	.0	1.4	6.3	.3	.0	.0	.0	.0	472	.0	8.2
-14/-16	.0	.0	.0	.2	3.6	.4	.0	.0	.0	.0	.0	244	.0	4.2
-17/-19	.0	.0	.0	1.6	.4	.0	.0	.0	.0	.0	.0	118	.0	2.0
-20/-22	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	33	.0	.6
-23/-25	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	9	.0	.2
-26/-30	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	.0	.2
TOTAL	7	6	18	130	324	901	1276	1688	1310	111	.1	5770	148	5622
PCT	.0	.1	.3	2.3	5.6	15.6	22.1	29.3	22.7	1.9	.1	100.0	2.6	97.4

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.3	.0	.0	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.0	.4
1-2	.0	.1	.1	.0	.0	.0	.0	.1	.1	.3	.3	.0	.0	.0	.0	.9
3-4	.0	.4	.4	.1	.0	.0	.0	.9	.0	.3	.9	.1	.0	.0	.0	1.2
5-6	.0	.1	.6	.2	.0	.0	.0	1.0	.0	.2	.7	.2	.0	.0	.0	1.1
7	.0	.1	1.5	.3	.0	.0	.0	1.9	.1	.1	1.0	.7	.1	.0	.0	1.6
8-9	.0	.1	.5	.7	.0	.0	.0	1.4	.0	.1	.6	.8	.1	.0	.0	1.5
10-11	.0	.1	.3	1.5	.0	.0	.0	2.0	.0	.1	.4	1.0	.1	.0	.0	1.5
12	.0	.0	.1	.5	.4	.0	.0	.9	.0	.0	.3	1.3	.4	.0	.0	1.9
13-16	.0	.0	.1	.9	.3	.0	.0	1.3	.0	.0	.1	.7	.5	.2	.0	1.5
17-19	.0	.0	.1	.4	.8	.1	.1	1.3	.0	.0	.0	.5	.7	.1	.0	1.5
20-22	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.1	.8	.1	1.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.5
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.3
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.2
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	3.7	4.7	1.7	.1	11.3	.1	1.5	4.2	5.4	3.3	.7	15.1		

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.4	.0	.0	.0	.0	.0	.5	.1	.0	.0	.0	.0	.0	.0	.1
1-2	.0	.1	.7	.0	.0	.0	.0	.4	.0	.3	.1	.0	.0	.0	.0	.4
3-4	.0	.4	1.4	.1	.0	.0	.0	1.9	.0	.2	.6	.0	.0	.0	.0	.8
5-6	.0	.2	1.4	.4	.0	.0	.0	1.9	.0	.0	.7	.1	.0	.0	.0	.8
7	.0	.2	1.0	.8	.0	.0	.0	1.8	.0	.0	.8	.2	.0	.0	.0	1.0
8-9	.0	.0	.4	1.1	.1	.0	.0	1.8	.0	.0	.0	.2	.0	.0	.0	.3
10-11	.0	.1	.3	.8	.1	.0	.0	1.7	.0	.1	.1	.3	.0	.0	.0	.4
12	.0	.1	.3	.4	.4	.0	.0	1.7	.0	.1	.2	.3	.0	.0	.0	.9
13-16	.0	.0	.1	.6	.5	.0	.0	1.2	.0	.0	.0	.2	.3	.0	.0	.4
17-19	.0	.0	.1	.3	.6	.0	.0	1.0	.0	.1	.1	.1	.4	.0	.0	.6
20-22	.0	.0	.0	.1	.5	.2	.1	.7	.0	.0	.0	.1	.3	.0	.0	.3
23-25	.0	.0	.0	.1	.1	.1	.2	.2	.0	.0	.0	.0	.1	.0	.0	.1
26-32	.0	.0	.0	.0	.3	.1	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	5.8	4.4	2.6	.3	14.6	.1	.7	2.6	1.7	1.2	.0	6.3		

PERIOD: (OVER-ALL) 1963-1972

MARCH

AREA 0002 DSV BRAVO
96.9N 91.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.5	.0	.3	.0	.0	.0	.0	.3
1-2	.1	.3	.1	.0	.0	.0	.4	.0	.2	.1	.0	.0	.0	.3
3-4	.1	.3	.4	.0	.0	.0	.8	.0	.2	.5	.1	.0	.0	.8
5-6	.0	.1	.7	.1	.0	.0	1.0	.0	.2	.6	.1	.0	.0	.9
7	.0	.1	.0	.1	.0	.0	1.2	.0	.1	1.4	.7	.0	.0	2.2
8-9	.0	.0	.3	.9	.0	.0	1.2	.0	.1	.7	.4	.0	.0	1.2
10-11	.0	.0	.5	.9	.0	.0	1.4	.1	.0	.6	.8	.0	.0	1.5
12	.0	.0	.1	.7	.2	.0	1.0	.0	.0	.2	.7	.0	.0	.9
13-16	.0	.0	.1	.5	.3	.0	.9	.0	.0	.1	.8	.3	.0	1.2
17-19	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.2	.1	.1	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.1	.1	.1	.3
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.1	3.1	3.3	.9	.0	8.5	.1	1.1	4.3	3.7	.7	.1	9.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.5	.0	.0	.0	.0	.6	.0	.3	.0	.0	.0	.0	.4	
1-2	.1	.3	.0	.0	.0	.0	.4	.0	.1	.1	.0	.0	.0	.1	
3-4	.0	.2	.0	.0	.0	.0	.5	.0	.3	1.1	.0	.0	.0	1.5	
5-6	.0	.4	.9	.2	.0	.0	1.4	.0	.3	.8	.3	.0	.0	1.4	
7	.0	.1	.0	.3	.0	.0	1.3	.0	.1	1.6	.7	.0	.0	2.5	
8-9	.0	.1	1.2	.6	.0	.0	2.0	.0	.1	.9	.6	.0	.0	1.7	
10-11	.0	.0	.7	1.0	.0	.0	1.8	.0	.2	1.1	2.0	.2	.0	3.5	
12	.0	.0	.3	1.4	.3	.0	2.0	.0	.0	.4	1.9	.2	.0	2.4	
13-16	.0	.0	.2	1.4	.4	.0	2.0	.0	.0	.5	2.1	.8	.0	3.4	
17-19	.0	.0	.0	.3	.3	.0	.7	.0	.0	.0	.7	1.1	.0	1.8	
20-22	.0	.0	.0	.1	.7	.2	1.0	.0	.0	.0	1.0	.3	.0	.4	
23-25	.0	.0	.0	.0	.5	.2	.6	.0	.0	.0	.1	.2	.0	.3	
26-32	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.7	4.4	9.4	2.1	.4	14.2	.0	1.6	6.4	8.4	2.7	.0	19.3	99.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.0	2.6	.1	.0	.0	.0	3.8	
1-2	.2	2.0	.9	.0	.0	.0	3.0	
3-4	.1	2.4	5.6	.4	.0	.0	8.5	
5-6	.0	1.4	6.3	1.4	.1	.0	9.3	
7	.1	.6	9.0	3.4	.1	.0	13.4	
8-9	.0	.3	4.9	5.4	.2	.0	10.9	
10-11	.1	.4	4.4	8.9	.4	.0	13.6	
12	.0	.1	2.0	7.4	1.9	.0	11.3	
13-16	.0	.0	1.1	7.3	3.3	.2	11.9	
17-19	.0	.1	.2	2.4	4.3	.2	7.2	
20-22	.0	.0	.1	.5	2.8	.5	3.8	
23-25	.0	.0	.0	.2	1.5	.4	2.1	
26-32	.0	.0	.0	.0	.6	.4	1.0	
33-40	.0	.0	.0	.0	.2	.1	.2	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	10.2	34.5	37.0	15.3	1.6	100.0	1891

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	.6	3.1	2.7	1.0	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	463	5
6-7	.0	.0	1.6	2.9	7.1	5.3	4.6	2.1	1.8	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	1458	8
8-9	.0	.0	.5	1.0	3.1	5.1	7.5	6.6	6.8	3.2	1.3	.7	.1	.0	.0	.0	.0	.0	.0	1987	12
10-11	.0	.0	.1	.6	.6	1.2	2.4	1.6	3.4	3.2	2.4	1.7	.7	.1	.0	.0	.0	.0	.0	988	15
12-13	.0	.0	.0	.1	.0	.0	.5	.3	.6	.6	1.1	.6	1.4	.0	.0	.0	.0	.0	.0	276	20
>13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	23	23
INDFT	.5	.5	1.5	.8	1.2	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	315	5
TOTAL	29	64	372	438	718	717	865	599	702	414	276	179	133	4	0	0	0	0	0	3510	11
PCT	.5	1.2	6.6	7.9	13.0	13.0	15.7	10.9	12.7	7.5	5.0	3.2	2.4	.1	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1966-1972AREA 0002 OSV PRAVN
56.4N 91.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	RRPL	RRPG	SNOW	OTHER PRZN	HAIR	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY ALWG DUST	NO SIG WFA
N	8.0	1.0	.0	.1	70.0	.0	.1	78.6	4.3	.0	1.7	.1	.0	.0	85.2
NE	19.3	2.4	2.1	.0	13.4	.1	.1	95.0	3.1	.0	5.0	.1	.1	.0	56.0
E	23.0	1.8	4.3	.0	12.3	.0	.1	87.9	2.7	.0	9.0	.0	.3	.0	50.1
SE	16.8	1.8	4.2	.3	12.4	.0	.1	93.1	3.7	.0	12.3	.3	.1	.0	50.3
S	9.2	1.0	2.5	.0	12.8	.4	.4	74.3	5.1	.0	8.1	.0	.1	.0	64.4
SW	6.4	1.3	1.3	.0	17.3	.1	.3	75.6	6.3	.0	2.4	.4	.7	.1	65.0
W	3.1	1.0	1.0	.2	28.0	.1	.9	93.4	8.8	.0	.2	.1	.0	.2	57.3
NW	2.7	1.2	.3	.0	78.9	.2	.7	72.8	5.8	.0	.6	.0	.1	.1	60.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.7	2.2	.0	.0	11.1	.0	.0	17.8	11.1	.0	2.2	.0	.0	.0	68.9
TOT PCT	10.2	1.4	1.7	.1	19.3	.1	.3	91.3	5.1	.0	3.8	.1	.1	.1	59.4
TOT OBS:	9820														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	RRPL	RRPG	SNOW	OTHER PRZN	HAIR	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY ALWG DUST	NO SIG WFA
0000	11.2	1.5	2.1	.1	19.8	.1	.4	93.5	4.4	.0	2.9	.0	.7	.0	58.8
0600	10.7	1.5	2.1	.0	20.4	.1	.3	93.2	4.8	.0	3.8	.1	.0	.1	58.3
1200	9.8	1.4	1.2	.1	19.4	.1	.3	90.9	5.0	.0	4.7	.1	.7	.1	58.1
1800	9.1	1.2	1.4	.1	19.0	.1	.3	79.7	5.3	.0	3.6	.2	.1	.1	60.9
TOT PCT	10.2	1.4	1.7	.1	19.7	.1	.3	91.9	5.1	.0	3.8	.1	.1	.1	59.0
TOT OBS:	9857														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	3.1	7.1	6.2	1.5	.2		18.2	70.2	17.3	18.6	17.3	19.2	19.8	17.6	14.7	18.3	
NE	.2	7.3	4.4	4.4	1.6	.1		13.0	70.9	12.9	12.7	13.5	13.4	13.3	17.8	12.5	17.4	
E	.3	1.8	3.9	3.7	1.8	.1		11.5	71.5	11.7	11.3	11.0	10.3	11.9	17.7	11.8	11.4	
SE	.2	1.8	3.0	1.3	.5	.0		8.9	18.9	7.2	7.1	5.7	7.4	6.3	7.3	4.7	7.4	
S	.2	1.8	4.4	2.4	.4	.1		9.5	18.3	8.1	4.9	10.3	9.8	10.8	9.8	6.5	6.7	
SW	.1	1.9	4.4	2.5	.6	.0		9.8	17.9	10.6	9.8	9.9	9.3	9.4	9.7	11.3	9.3	
W	.3	2.3	5.0	3.4	1.1	.2		12.8	19.7	12.7	12.2	13.3	12.1	11.9	17.7	13.4	12.4	
NW	.3	2.9	7.1	5.5	1.7	.2		17.8	70.7	14.9	17.6	18.2	18.2	14.4	17.5	14.7	18.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8							.8	.0	.3	.7	.8	1.1	1.2	.7	.5	.8	
TOT OBS	1.7	1043	2207	1757	438	47	5834		19.7	791	719	734	733	732	726	733	724	
TOT PCT	2.5	17.9	34.5	30.1	9.2	.8		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-8	WIND SPEED (KNOTS)				TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00	06	12	18
									03	09	15	21
N	1.1	6.0	6.9	3.7	.4		18.2	20.2	17.9	18.2	18.2	18.3
NE	1.1	3.8	4.4	3.3	.4		13.0	20.9	12.8	13.4	13.1	12.5
E	1.0	3.4	3.6	3.1	.3		11.5	21.5	11.5	10.8	12.0	11.7
SE	1.0	2.8	2.1	.8	.1		6.9	18.9	7.1	8.5	6.8	7.0
S	.9	3.5	3.7	1.3	.1		9.5	18.3	9.1	10.1	10.1	8.8
SW	.8	4.0	3.5	1.3	.1		9.8	17.9	10.2	9.1	9.6	10.3
W	.9	4.6	4.4	2.2	.3		12.8	19.7	12.4	12.7	12.3	12.9
NW	1.0	5.6	6.8	3.7	.7		17.8	20.7	18.3	18.2	16.9	17.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8	.0	.5	1.0	1.0	.7
TOT OBS	499	1967	2071	1193	164	5834		19.7	1450	1467	1448	1449
TOT PCT	8.6	33.7	35.5	19.4	2.8		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

APRIL

AREA 0002 OSV BRAVO
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.5	1.6	20.1	39.3	28.1	9.6	.8	19.4	100.0	1450
06009	1.0	2.4	18.3	39.1	28.4	10.0	.9	19.5	100.0	1467
12015	1.0	1.4	16.2	40.3	31.2	9.0	1.0	20.0	100.0	1450
18021	.7	1.6	16.9	39.1	32.7	8.3	.6	19.8	100.0	1459
TOT	4.5	10.2	104.3	230.2	175.7	59.8	4.7	19.7		5834
PCT	.8	1.7	17.9	39.5	30.1	9.2	.8	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.6	4.8	12.2		7.1
NE	.4	.6	2.4	9.6		7.1
E	.3	.6	1.7	9.0		7.4
SE	.3	.2	1.3	9.1		7.2
S	.9	.5	2.0	6.1		6.7
SW	.9	.6	2.7	5.6		6.6
W	.9	.9	5.2	5.6		6.5
NW	.5	.8	6.1	10.4		7.0
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.2	.5		7.0
TOT OBS	285	277	1553	1735	4875	7.0
TOT PCT	4.9	4.7	26.3	34.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	294	599	799	1999	3499	4999	6499	7999			
N	.4	.0	.1	1.6	9.4	7.5	.7	.1	.1	.1	2.2	
NE	.4	.0	.3	1.7	4.0	3.7	.4	.1	.1	.1	1.9	
E	.9	.0	.6	1.8	3.7	2.4	.3	.1	.1	.1	1.8	
SE	.6	.0	.3	.9	1.8	1.4	.3	.1	.1	.1	1.4	
S	.5	.0	.3	.7	2.3	1.9	.3	.1	.2	.3	3.0	
SW	.2	.0	.2	.6	2.8	2.7	.2	.1	.2	.1	2.7	
W	.2	.0	.1	.4	4.3	4.5	.2	.1	.1	.0	2.7	
NW	.2	.0	.1	.9	6.1	7.5	.6	.0	.0	.0	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
TOT OBS	214	1	118	504	1751	1861	189	39	51	67	1050	5825
TOT PCT	3.7	.1	2.0	8.7	30.1	31.9	3.2	.6	.9	.8	18.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)					OR >1/2	OR >1/4	OR >50YD	OR >0
	OR >10	OR >5	OR >2	OR >1	OR >1/2				
OR >6500	1.0	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7
OR >5000	1.3	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3
OR >3500	3.5	5.4	5.5	5.5	5.5	5.5	5.5	5.5	5.5
OR >2000	22.2	36.5	37.3	37.4	37.5	37.5	37.5	37.5	37.5
OR >1000	30.7	62.7	66.3	67.2	67.5	67.6	67.6	67.6	67.6
OR >600	31.2	67.3	73.4	75.4	76.0	76.2	76.3	76.3	76.3
OR >300	31.3	68.0	74.8	77.2	78.0	78.2	78.3	78.3	78.3
OR >150	31.3	68.0	74.8	77.2	78.0	78.3	78.4	78.4	78.4
OR >0	31.3	68.0	75.0	77.7	79.8	80.8	81.9	82.0	82.0
TOTAL	1834	3987	4395	4557	4680	4742	4806	4813	

TOTAL NUMBER OF OBS: 5866

PCT FREQ NH <5/8: 18.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	3.4	2.2	4.9	4.4	3.0	5.0	14.1	10.9	47.5	5877

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

APRIL

AREA 0002 OSV BRAVO
56.4N 51.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.2	.2	.1	.1	.1	.1	.1	.0	.0	1.2	
	NO PCP	.1	.1	.2	.3	.3	.1	*	.0	.0	.0	1.1	
	TOT %	.3	.3	.4	.5	.4	.2	.1	.1	.0	.0	2.3	
1/2<1	PCP	.2	.3	.4	.2	.1	.1	.2	.2	.0	.0	1.5	
	NO PCP	*	.1	.2	.1	.1	*	.0	.0	.0	.0	.6	
	TOT %	.2	.4	.6	.3	.1	.1	.2	.2	.0	.0	2.1	
1<2	PCP	.2	.4	.6	.3	.2	.1	.2	.2	.0	*	2.2	
	NO PCP	*	.1	.2	.1	.1	*	*	*	.0	*	.6	
	TOT %	.2	.4	.8	.3	.4	.1	.2	.2	.0	*	2.8	
2<5	PCP	.4	1.1	1.0	.6	.5	.4	.5	1.0	.0	.1	5.9	
	NO PCP	.1	.3	.3	.2	.1	.1	*	.1	.0	.0	1.3	
	TOT %	1.0	1.3	1.3	.8	.6	.5	.5	1.0	.0	.1	7.2	
5<10	PCP	3.1	2.6	2.0	1.0	1.2	1.5	2.6	3.4	.0	.1	17.4	
	NO PCP	4.4	3.2	2.7	1.6	2.3	2.1	3.1	4.8	.0	.2	24.5	
	TOT %	7.5	5.8	4.7	2.6	3.5	3.6	5.7	8.2	.0	.3	41.9	
10+	PCP	.6	.1	.2	.2	.2	.4	.6	.9	.0	.0	3.2	
	NO PCP	8.3	4.6	3.4	2.2	4.4	4.9	5.2	7.1	.0	.4	40.4	
	TOT %	8.9	4.7	3.6	2.3	4.6	5.3	5.8	8.0	.0	.4	43.6	
TOT OBS													5821
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
	4-10	*	.1	.1	.1	*	*	*	*	.0	.0	.3	
	11-21	*	.2	.3	.3	.2	.1	.1	*	.0	.0	1.0	
	22+	.2	.1	.1	.1	.2	.1	.1	.1	.0	.0	.9	
	TOT %	.3	.3	.4	.5	.4	.2	.1	.1	.0	.0	2.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	4-10	.0	.1	.1	.1	*	.0	.0	.0	.0	.0	.2	
	11-21	*	.1	.2	.1	.1	*	*	.1	.0	.0	.7	
	22+	.1	.2	.4	.1	.1	.1	.2	.1	.0	.0	1.2	
	TOT %	.2	.4	.6	.3	.1	.1	.2	.2	.0	.0	2.1	
1<2	0-3	*	*	*	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	*	*	.1	*	*	*	.1	*	.0	.0	.3	
	11-21	*	.1	.2	.2	.1	.1	.1	*	.0	.0	.8	
	22+	.2	.3	.6	.1	.2	.1	.1	.2	.0	.0	1.6	
	TOT %	.3	.4	.8	.3	.4	.1	.2	.2	.0	*	2.8	
2<5	0-3	.0	.0	*	*	*	.0	*	*	.0	.1	.1	
	4-10	.1	.2	.1	.1	.1	*	.1	.1	.0	.0	.7	
	11-21	.2	.3	.4	.4	.2	.2	.2	.2	.0	.0	2.0	
	22+	.7	.9	.8	.4	.3	.3	.3	.8	.0	.0	4.4	
	TOT %	1.0	1.3	1.3	.8	.6	.5	.5	1.0	.0	.1	7.2	
5<10	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.3	1.1	
	4-10	1.1	.8	.5	.6	.7	.7	.7	1.0	.0	.0	6.1	
	11-21	2.7	1.8	1.4	1.1	1.4	1.3	1.8	2.6	.0	.0	14.2	
	22+	3.6	3.1	2.8	.9	1.3	1.4	3.0	4.4	.0	.0	20.5	
	TOT %	7.5	5.7	4.7	2.6	3.5	3.6	5.7	8.2	.0	.3	41.8	
10+	0-3	.1	.1	.2	.1	.1	.1	.1	.1	.0	.4	1.1	
	4-10	1.8	1.2	.9	1.0	.9	1.2	1.5	1.8	.0	.0	10.3	
	11-21	4.0	1.8	1.6	1.1	2.4	2.8	2.7	4.2	.0	.0	20.7	
	22+	3.0	1.6	.9	.2	1.2	1.2	1.5	1.9	.0	.0	11.6	
	TOT %	9.0	4.7	3.6	2.3	4.6	5.3	5.8	8.0	.0	.4	43.7	
TOT OBS													5833
TOT PCT													100.0

APRIL

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972AREA 0002 OSV BRAYB
56.4N 51.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8 AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	3.1	.0	2.4	9.1	28.5	33.2	3.1	.8	1.2	.6	81.9	18.1	1466
06009	3.7	.1	1.7	7.8	30.7	33.9	3.1	.7	.6	1.1	83.4	16.6	1471
12015	3.7	.1	2.4	9.3	30.9	30.8	2.7	.6	.6	.6	81.7	18.3	1467
18021	4.3	.1	1.6	8.2	30.3	30.1	4.0	.3	1.1	.9	81.0	19.0	1467
TOT	216	5	118	506	1769	1878	189	35	51	47	4814	1037	5871
PCT	3.7	.1	2.0	8.6	30.1	32.0	3.2	.6	.9	.8	82.0	18.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.3	1.6	2.9	7.5	44.5	41.2	1466
06009	2.7	1.6	2.4	6.7	46.0	40.8	1471
12015	1.7	2.9	3.2	7.6	39.8	44.8	1469
18021	2.6	2.5	2.7	6.9	37.8	47.4	1469
TOT	135	175	165	422	2470	2558	5475
PCT	2.3	2.1	2.8	7.2	42.0	43.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8 BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	3.1	6.3	20.1	62.5	17.4	1466
06009	3.7	6.2	18.7	64.9	16.4	1470
12015	3.7	7.2	20.6	61.1	18.2	1469
18021	4.3	7.0	19.2	62.1	18.6	1466
TOT	217	391	1155	3676	1035	5866
PCT	3.7	6.7	19.7	62.7	17.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
40/44	.0	.0	.0	.1	.4	.6	2.8	3.5	430	7.4
35/39	.0	.0	.2	1.0	4.6	11.2	15.1	19.6	2990	51.7
30/34	.0	.0	.1	1.5	6.8	8.9	7.2	5.4	1733	30.0
25/29	.0	.0	.0	.6	2.3	3.3	1.9	.9	519	9.0
20/24	.0	.0	.0	.2	.3	.5	.5	.2	97	1.7
15/19	.0	.0	.0	.1	.1	.1	.0	.0	14	.2
TOTAL	0	1	18	197	842	1421	1588	1717	5784	100.0
PCT	.0	.0	.3	3.4	14.6	24.6	27.5	29.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.5	1.5	1.8	1.1	1.1	.8	.4	.1	.0	.0
9.5	8.0	8.0	4.4	6.1	4.6	3.9	6.6	.0	.5
6.8	3.0	1.6	1.1	2.0	3.0	4.5	7.8	.0	.3
1.5	.4	.1	.2	.2	1.0	2.6	2.9	.0	.0
.0	.0	.0	.0	.1	.3	.8	.3	.0	.0
.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
18.3	12.9	11.5	6.9	9.5	9.8	12.4	17.7	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	43	40	39	35	27	21	16	34.4	1466
06009	43	40	39	35	27	21	17	34.1	1471
12015	44	41	40	36	27	23	18	35.0	1470
18021	46	42	40	36	28	23	16	35.2	1468
TOT	46	41	40	35	27	22	16	34.7	5874

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.4	15.2	22.9	26.5	31.9	81	1456
06009	.0	3.4	13.0	24.2	29.5	29.9	81	1459
12015	.0	4.0	15.2	24.8	26.5	29.6	81	1458
18021	.0	4.1	14.8	26.4	27.3	27.5	80	1453
TOT	0	217	846	1432	1598	1731	81	5826

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

APRIL

AREA 0002 OSV BRAVO
36.4N 51.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	13 16	17 20	21 24	25 28	29 32	34 36	37 40	41 44	43 48	TOT	W FOG	W0 FOG
7/8	.0	.0	.0	.0	.0	*	*	*	.0	4	.0	.1
6	.0	.0	.0	.0	.0	.1	.2	*	.0	14	*	.2
5	.0	.0	.0	.0	.0	.3	.3	.0	.0	35	.1	.5
4	.0	.0	.0	.0	.0	.1	1.0	.5	.0	94	.1	1.5
3	.0	.0	.0	.0	.0	.2	1.7	.7	.0	153	.2	2.4
2	.0	.0	.0	.0	.0	.3	4.6	.4	.0	310	.7	4.7
1	.0	.0	.0	.0	.0	.2	7.7	.1	.0	467	.8	7.2
0	.0	.0	.0	.0	.0	1.4	7.9	.1	.0	550	.6	8.8
-1	.0	.0	.0	.0	.1	3.4	7.5	*	.0	651	.6	10.6
-2	.0	.0	.0	.0	.1	6.7	2.9	.0	.0	568	.3	9.4
-3	.0	.0	.0	.0	.2	8.6	1.2	.0	.0	587	.2	9.9
-4	.0	.0	.0	.0	.7	7.2	.4	.0	.0	483	.1	8.2
-5	.0	.0	.0	.0	1.9	5.8	.1	.0	.0	454	.1	7.7
-6	.0	.0	.0	*	4.8	1.6	.0	.0	.0	375	*	6.4
-7/-8	.0	.0	.0	.3	7.3	.4	.0	.0	.0	484	.0	8.3
-9/-10	.0	.0	.0	2.7	2.5	*	.0	.0	.0	304	.0	5.2
-11/-13	.0	.0	.2	3.0	*	.1	.0	.0	.0	198	*	3.4
-14/-16	.0	*	1.2	.1	*	.0	.0	.0	.0	79	.0	1.4
-17/-18	.0	.2	.0	*	.0	.0	.0	.0	.0	26	.0	.4
-20/-22	.0	.1	.0	.0	.0	.0	.0	.0	.0	7	.0	.1
TOTAL	2		94		1025		2072		1	5843	218	5625
PCT	*	.20	361		2134		134		*	100.0	3.7	96.3

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.7	.0	.0	.0	.0	.7	.1	.4	.0	.0	.0	.0	.5
1-2	.0	.8	.4	.0	.0	.0	1.2	.0	.5	.2	.0	.0	.0	.7
3-4	.0	.5	1.4	*	.0	.0	2.0	.0	.4	.7	*	.0	.0	1.1
5-6	.0	.3	1.8	.3	.0	.0	2.4	.0	.3	.9	.2	.0	.0	1.4
7	.0	.7	1.6	1.0	.0	.0	3.4	.0	.1	1.1	1.0	.0	.0	2.2
8-9	.0	.1	1.1	1.2	.1	.0	2.5	.0	.0	.4	.7	.0	.0	1.1
10-11	.0	.0	.6	1.0	.1	.0	1.8	.0	.0	.4	.9	.1	.0	1.4
12	.0	.0	.0	1.7	.1	.0	1.8	.0	.0	.2	1.1	.2	.0	1.5
13-16	.0	.0	*	.9	.3	.0	1.3	.0	.0	.1	.5	.5	.0	1.0
17-19	.0	.0	.0	.1	.5	.0	.7	.0	.0	.0	.2	.5	.0	.7
20-22	.0	.0	.0	.1	.4	*	.5	.0	.0	.1	.1	.1	*	.3
23-25	.0	.0	.0	.0	.1	*	.1	.0	.0	.0	.1	.0	*	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	3.1	7.0	6.5	1.6	.1	18.2	.1	1.6	4.1	4.7	1.4	*	11.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6	*	.3	.1	.0	.0	.0	.4
1-2	.0	.1	.1	.0	.0	.0	.2	.0	.5	.2	.0	.0	.0	.7
3-4	.0	.2	.6	.0	.0	.0	.8	.0	.5	1.0	*	.0	.0	1.6
5-6	.0	.2	.6	.3	.0	.0	1.1	.0	.2	.5	.1	.0	.0	.8
7	.0	.1	.6	.7	.0	.0	1.4	.0	.1	.4	.3	.0	.0	.8
8-9	.0	.0	.3	.6	.0	.0	.8	.0	.0	.4	.3	.0	.0	.7
10-11	.0	.0	*	.4	.1	.0	.5	*	.1	.6	.2	.1	.0	.9
12	.0	*	.1	.4	.1	.0	.6	.0	*	.1	.2	.1	.0	.4
13-16	.0	.0	.1	.7	.5	.0	1.3	.0	.0	.1	.4	.4	.0	.8
17-19	.0	.0	.0	.4	1.3	.0	1.7	.0	.0	.0	.1	.2	.1	.3
20-22	.0	.0	.0	*	.4	.1	.5	.0	.0	.0	*	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.1	2.4	3.5	2.4	.1	9.5	*	1.7	3.4	1.5	.8	.1	7.5

PERIOD: (OVER-ALL) 1963-1972

APRIL

AREA 0002 DSV BRAVO
56.4N 51.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.1	.4	.0	.0	.0	.0	.5
1-2	.1	.5	.3	.0	.0	.0	.8	.1	.4	.4	.0	.0	.0	.8
3-4	.0	.6	1.6	.1	.0	.0	2.3	.0	.7	.8	.1	.0	.0	1.5
5-6	.0	.1	.8	.3	.0	.0	1.2	.0	.2	2.0	.3	.0	.0	2.4
7	.0	.1	1.1	.5	.0	.0	1.7	.0	.0	1.1	.3	.0	.0	1.5
8-9	.0	.2	.9	.5	.0	.0	1.6	.0	.0	.7	.3	.0	.0	.9
10-11	.0	.0	.3	.7	.0	.0	1.1	.0	.1	.4	.7	.1	.0	1.2
12	.0	.0	.2	.4	.1	.0	.7	.0	.0	.1	.5	.1	.0	.6
13-16	.0	.0	.1	.3	.3	.0	.6	.0	.0	.1	.4	.2	.0	.7
17-19	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.8	5.3	3.1	.4	.1	10.8	.1	1.7	5.4	2.7	.7	.0	10.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.5	.0	.0	.0	.0	.6	.1	.5	.0	.0	.0	.0	.5	
1-2	.0	.5	.1	.0	.0	.0	.6	.0	.4	.1	.0	.0	.0	.5	
3-4	.1	.7	1.1	.0	.0	.0	2.0	.1	.8	1.1	.0	.0	.0	2.0	
5-6	.0	.1	1.5	.2	.0	.0	1.7	.0	.6	1.2	.2	.1	.0	2.0	
7	.0	.2	1.0	.2	.0	.0	1.4	.0	.6	3.1	.6	.0	.0	4.3	
8-9	.0	.1	.5	.6	.1	.0	1.3	.0	.0	.9	.9	.1	.0	1.9	
10-11	.0	.0	.5	.9	.0	.0	1.5	.0	.1	.3	.5	.2	.0	1.1	
12	.0	.0	.3	.8	.1	.0	1.2	.0	.0	.3	1.0	.2	.0	1.5	
13-16	.0	.0	.2	.8	.4	.1	1.4	.0	.0	.1	2.1	.3	.1	2.5	
17-19	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.1	.2	.0	.3	
20-22	.0	.0	.0	.2	.7	.1	.9	.0	.0	.0	.1	.5	.1	.7	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.2	5.3	3.8	1.5	.2	13.2	.2	3.0	7.1	3.5	1.7	.1	17.6	99.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.9	3.6	.1	.0	.0	.0	4.5	
1-2	.2	3.6	1.8	.0	.0	.0	5.5	
3-4	.3	4.4	8.3	.3	.0	.0	13.3	
5-6	.1	2.0	9.3	1.7	.1	.0	13.1	
7	.2	2.0	10.2	4.7	.0	.0	16.9	
8-9	.0	.3	3.1	5.0	.3	.0	10.8	
10-11	.1	.3	3.1	4.3	.7	.0	9.4	
12	.0	.1	1.2	6.2	.9	.0	8.3	
13-16	.0	.0	.6	6.0	2.8	.1	9.5	
17-19	.0	.0	.1	1.3	3.1	.1	4.5	
20-22	.0	.0	.1	.6	2.3	.2	3.1	
23-25	.0	.0	.0	.2	.2	.1	.5	
26-32	.0	.0	.0	.0	.2	.2	.4	
33-40	.0	.0	.0	.0	.2	.0	.2	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.6	16.2	39.7	31.3	10.6	.7	100.0	1990

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	1.2	4.2	4.7	4.4	1.4	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	885	5
6-7	.0	.0	2.0	5.3	8.9	7.0	5.7	3.2	1.6	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	1831	8
8-9	.0	.0	.3	1.5	3.2	4.1	5.7	5.6	3.2	2.2	1.0	.5	.2	.1	.0	.0	.0	.0	.0	1574	11
10-11	.0	.0	.1	.5	.9	1.0	.9	.8	2.0	2.0	1.1	.6	.6	.0	.0	.0	.0	.0	.0	568	14
12-13	.0	.0	.1	.1	.3	.2	.1	.1	.2	.3	.2	.1	.4	.0	.0	.0	.0	.0	.0	112	16
>13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	21	16
INDEX	.2	.4	1.5	1.5	.8	.6	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	314	6
TOTAL	12	87	438	723	984	757	735	528	488	278	135	69	66	5	0	0	0	0	0	9305	9
PCT	.2	1.6	8.3	13.6	18.5	14.3	13.9	10.0	9.2	5.2	2.5	1.3	1.2	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

MAY

AREA 0002 OSV ARAVO
96.9N 91.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRYL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	11.0	2.3	1.8	.0	8.8	.1	.0	23.4	4.2	.0	2.2	.1	.0	.0	70.2
NE	18.0	2.6	3.7	.0	6.9	.0	.0	29.1	3.0	.0	9.3	.2	.1	.0	58.4
E	25.1	1.6	7.3	.0	2.7	.1	.0	36.2	4.1	.0	14.9	.3	.3	.0	44.2
SE	20.6	1.7	9.2	.0	2.5	.0	.0	33.5	3.2	.0	14.3	.6	.0	.0	48.4
S	13.3	1.5	3.7	.0	3.4	.0	.1	22.1	3.0	.0	13.9	.2	.1	.0	60.6
SW	7.0	1.6	1.9	.0	6.6	.0	.0	17.0	3.1	.0	8.5	.2	.0	.0	71.2
W	4.7	2.4	1.3	.0	10.3	.2	.3	18.5	6.9	.0	2.7	.3	.0	.0	71.5
NW	4.4	2.9	.9	.0	13.2	1.0	.4	22.1	6.1	.0	.5	.1	.0	.0	71.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.7	1.1	3.4	.0	4.6	.0	.0	14.9	4.6	.0	9.2	1.1	1.1	.0	69.0
TOT PCT	12.7	2.1	3.7	.0	7.0	.2	.1	25.2	4.3	.0	8.0	.3	.1	.0	62.2
TOT OBS:	5849														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRYL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	13.5	2.2	4.3	.0	6.2	.2	.2	26.0	4.2	.0	7.1	.1	.1	.0	62.4
06009	14.8	2.5	4.2	.0	8.6	.1	.1	29.2	4.5	.0	7.6	.2	.0	.0	58.5
12015	12.6	2.0	2.8	.0	7.7	.2	.1	24.9	4.9	.0	8.1	.3	.1	.0	61.6
18021	10.0	1.8	3.3	.0	5.8	.4	.1	20.7	3.5	.0	9.1	.3	.1	.0	66.2
TOT PCT TOT OBS:	12.7 5855	2.1	3.7	.0	7.1	.2	.1	25.2	4.3	.0	8.0	.3	.1	.0	62.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	3.1	5.8	2.9	.5	.1		12.6	17.0		14.0	13.3	11.9	13.1	12.6	11.5	11.2	13.3
NE	.3	2.5	5.0	2.6	.6	.0		11.1	17.2		10.3	10.0	10.7	11.3	11.6	12.5	11.6	10.5
E	.4	2.8	5.0	3.3	1.5	.0		13.0	18.9		12.5	13.1	12.7	13.6	13.6	13.6	12.8	12.3
SE	.3	2.8	9.3	2.9	.4	.0		11.7	16.7		11.9	12.3	11.0	11.5	11.9	11.5	11.9	11.9
S	.4	2.6	7.9	3.0	.3	.0		12.2	16.6		13.1	12.4	12.8	10.9	12.6	12.2	11.6	12.1
SW	.3	2.9	4.7	1.5	.3	.0		9.4	15.1		9.3	9.8	9.4	10.6	9.5	9.6	9.8	10.3
W	.3	3.2	7.0	2.3	.4	.0		11.2	15.8		10.4	10.8	12.6	10.8	11.5	11.8	11.2	10.6
NW	.2	3.3	8.0	4.7	.6	.0		16.9	17.8		17.0	16.7	17.0	17.1	15.2	15.9	18.3	17.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0		1.6	1.5	1.9	1.1	1.5	1.4	1.5	1.6
TOT OBS	239	1361	2618	1367	269	16	5870		16.7		734	736	733	733	733	731	738	732
TOT PCT	4.1	23.2	44.6	23.3	4.6	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+	00				06	12	18	
N	1.2	5.2	4.9	1.1	.2		12.6	17.0	13.7	12.5	12.0	12.2	
NE	1.2	4.4	3.7	1.6	.1		11.1	17.2	10.1	11.0	12.1	11.1	
E	1.3	5.0	3.9	2.6	.3		13.0	18.9	12.8	13.1	13.6	12.6	
SE	1.4	4.8	4.3	1.1	.1		11.7	16.7	12.1	11.3	11.7	11.9	
S	1.3	3.1	4.8	.9	.1		12.2	16.6	12.8	11.8	12.4	11.8	
SW	1.2	4.9	3.0	.6	.1		9.8	15.1	9.5	10.0	9.6	10.1	
W	1.5	3.2	3.3	1.2	.1		11.2	15.8	10.6	11.7	11.6	10.9	
NW	1.2	8.7	6.9	2.0	.1		16.9	17.8	16.9	17.0	15.6	18.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.5						1.5	.0	1.6	1.5	1.4	1.4	
TOT OBS	696	2424	2041	650	59	5870		16.7	1470	1466	1464	1470	
TOT PCT	11.9	41.3	34.8	11.1	1.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

NAV

AREA 0002 OSV BRAVO
56.5N 51.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.6	3.0	24.6	43.3	22.7	4.6	.3	16.6	100.0	1470
06009	1.5	2.6	23.2	44.0	24.3	4.4	.1	16.7	100.0	1466
12013	1.4	2.7	27.6	45.2	23.3	4.6	.1	16.8	100.0	1464
18021	1.4	2.0	22.4	45.9	22.9	4.8	.6	17.0	100.0	1470
TOT	.7	132	1361	2618	1367	269	16	16.7		5870
PCT	1.5	2.6	23.2	44.6	23.3	4.6	.3	16.6	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	.4	2.9	8.4		7.0
NE	.7	.3	2.5	7.7		7.1
E	.5	.2	1.8	10.5		7.4
SE	.6	.2	1.6	9.3		7.4
S	1.0	.3	2.6	8.3		7.0
SW	1.3	.5	2.6	5.4		6.5
W	.7	.6	3.9	6.0		6.8
NW	.5	.7	5.1	10.6		7.1
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.4	.8		6.6
TOT OBS	367	186	1375	3939	5867	7.0
TOT PCT	6.3	3.2	23.4	67.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.2	.0	.2	1.0	4.7	9.7	.5	.1	.1	.1	.7	3.3
.5	.4	.4	1.4	4.4	1.7	.2	.1	.1	.2	2.1	
1.3	.1	1.2	2.2	4.1	1.5	.3	.2	.2	.2	1.9	
1.9	.8	1.4	3.1	1.5	.3	.2	.1	.3	2.2		
1.5	.1	.7	1.2	2.8	1.8	.2	.1	.1	.9	2.9	
.5	.4	.7	2.2	2.1	.1	.1	.1	.6	3.1		
.2	.0	.2	.6	4.4	3.2	.3	.1	.1	2.2		
.1	.0	.1	.6	7.1	5.8	.7	.1	.1	2.3		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
.1	.0	.1	.1	.4	.3	.1	.1	.1	.4		
359	11	239	542	1941	1265	158	41	48	133	1130	5867
6.1	.2	4.1	9.2	33.1	21.6	2.7	.7	.8	2.3	19.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.1	3.0	3.1	3.1	3.1	3.1	3.1	3.1
>5000	2.5	3.7	3.8	3.8	3.8	3.8	3.8	3.8
>3500	4.1	6.4	6.4	6.4	6.5	6.5	6.5	6.5
>2000	15.4	27.5	28.0	28.0	28.0	28.0	28.0	28.0
>1000	27.4	57.2	60.5	60.9	61.1	61.1	61.1	61.1
>600	28.3	62.9	68.6	69.9	70.3	70.4	70.4	70.4
>300	28.4	64.2	71.5	73.6	74.2	74.4	74.5	74.5
>150	28.4	64.2	71.6	73.7	74.4	74.6	74.7	74.7
>0	28.4	64.3	71.9	74.3	76.1	78.1	80.5	80.8
TOTAL	1668	3776	4224	4364	4471	4586	4730	4744

TOTAL NUMBER OF OBS: 5874

PCT FREQ NM <5/8: 19.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.8	3.4	5.9	3.4	2.8	5.0	11.1	10.9	47.7	5876

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

MAY

AREA 0002 OSV RRAV7
36.3N 51.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.1	.3	.5	.2	.1	.1	*	.0	.0	1.4	
	NO PCP	.1	.3	.7	.8	.9	.3	.1	*	.0	*	3.4	
	TOT %	.1	.4	1.1	1.3	1.2	.4	.2	.1	.0	*	4.7	
1/2<1	PCP	.1	.1	.3	.3	.1	.1	.0	*	.0	.1	1.1	
	NO PCP	*	*	.2	.2	.2	.1	*	.0	.0	*	.7	
	TOT %	.1	.2	.5	.5	.3	.1	*	*	.0	.1	1.8	
1<2	PCP	.1	.3	.6	.4	.2	.1	*	*	.0	*	1.7	
	NO PCP	*	.1	.2	.1	.2	*	.1	*	.0	*	.8	
	TOT %	.2	.3	.8	.6	.3	.1	.1	.1	.0	*	2.4	
2<5	PCP	.6	.8	1.2	1.0	.6	.4	.4	.6	.0	*	5.6	
	NO PCP	.1	.4	.6	.4	.3	.3	.1	*	.0	*	2.3	
	TOT %	.7	1.1	1.8	1.4	.9	.7	.5	.6	.0	.1	7.9	
5<10	PCP	1.8	1.7	2.3	1.6	1.4	.8	1.3	2.6	.0	.1	13.6	
	NO PCP	4.0	3.1	3.5	3.2	3.0	2.0	3.4	5.1	.0	.5	27.7	
	TOT %	5.9	4.8	5.8	4.7	4.4	2.8	4.7	7.6	.0	.5	41.3	
10+	PCP	.3	.2	.1	.1	.2	.2	.3	.5	.0	*	1.9	
	NO PCP	5.4	4.0	3.0	3.0	4.9	5.4	5.5	8.0	.0	.7	39.9	
	TOT %	5.7	4.2	3.1	3.2	5.1	5.6	5.8	8.4	.0	.7	41.8	
TOT OBS													5853
TOT PCT													12.4 11.0 13.1 11.8 12.2 9.8 11.2 16.9 .0 1.5 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	.1	*	*	*	.0	.0	*	.2	
	4-10	*	.2	.3	.4	.2	.1	*	.0	.0	*	1.2	
	11-21	*	.2	.5	.6	.7	.3	.1	*	.0	*	2.3	
	22+	*	*	.3	.3	.3	.1	*	*	.0	*	1.0	
	TOT %	.1	.4	1.0	1.3	1.2	.4	.2	.1	.0	*	4.7	
1/2<1	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.1	.1	
	4-10	*	*	.1	.1	*	.1	.0	*	.0	*	.3	
	11-21	*	*	.2	.2	.2	*	*	.0	.0	*	.7	
	22+	.1	.1	.2	.2	.1	*	.0	.0	.0	*	.7	
	TOT %	.1	.2	.5	.5	.3	.1	*	*	.0	.1	1.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	.1	.1	*	*	*	*	.0	*	.3	
	11-21	.1	.1	.2	.3	.2	*	*	.0	.0	*	.9	
	22+	.1	.2	.4	.2	.1	.1	*	.1	.0	*	1.2	
	TOT %	.2	.3	.8	.6	.3	.1	.1	.1	.0	*	2.4	
2<5	0-3	*	*	*	*	*	.0	.0	.0	.0	.1	.2	
	4-10	.1	.1	.2	.2	.1	.1	.1	*	.0	*	1.0	
	11-21	.3	.3	.5	.7	.4	.3	.1	.2	.0	*	2.7	
	22+	.3	.7	1.0	.5	.4	.3	.3	.4	.0	*	4.0	
	TOT %	.7	1.1	1.8	1.4	.9	.7	.5	.6	.0	.1	7.9	
5<10	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.5	1.3	
	4-10	1.4	.9	1.0	1.1	1.1	.8	1.1	1.4	.0	*	8.7	
	11-21	2.4	2.2	2.3	2.1	2.0	1.3	2.1	3.3	.0	*	17.7	
	22+	2.0	1.6	2.5	1.4	1.1	.6	1.4	2.8	.0	*	13.6	
	TOT %	5.9	4.8	5.8	4.7	4.4	2.8	4.7	7.6	.0	.5	41.3	
10+	0-3	.2	.2	.3	.1	.3	.2	.2	.2	.0	.7	2.3	
	4-10	1.5	1.3	1.2	.9	1.2	1.8	2.0	1.8	.0	*	11.7	
	11-21	3.0	2.2	1.2	1.5	2.5	2.8	2.6	4.4	.0	*	20.3	
	22+	1.0	.5	.4	.7	1.2	.7	1.0	2.0	.0	*	7.6	
	TOT %	5.7	4.2	3.1	3.2	5.2	5.6	5.8	8.4	.0	.7	41.9	
TOT OBS													5869
TOT PCT													12.6 11.1 13.0 11.7 12.2 9.8 11.2 16.9 .0 1.5 100.0

MAY

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972AREA 0002 OSV BRAVO
56.5N 51.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	6.3	.1	3.6	9.5	32.7	22.2	2.4	1.0	1.1	2.2	81.2	18.8	1471
06009	7.1	.1	3.1	9.0	33.9	23.3	2.8	.7	.8	2.2	83.0	17.0	1467
12015	5.6	.4	4.6	9.6	33.6	21.6	2.7	.5	.7	2.5	81.8	18.2	1465
18021	5.4	.1	5.0	9.0	32.2	19.1	2.8	.6	.7	2.2	77.1	22.9	1473
TOT	359	11	239	544	1944	1268	158	41	48	133	4745	1131	5876
PCT	6.1	.2	4.1	9.3	33.1	21.6	2.7	.7	.8	2.3	80.8	19.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	5.1	1.9	1.8	7.3	43.4	40.4	1471
06009	5.0	2.0	2.4	7.8	43.7	39.1	1467
12015	4.3	1.6	2.4	8.2	40.1	43.4	1467
18021	4.4	1.8	3.1	8.1	37.8	44.8	1472
TOT	277	107	142	463	2426	2462	5877
PCT	4.7	1.8	2.4	7.9	41.3	41.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/ON
CEILING HGT (FEET, NH >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	6.3	10.6	23.6	57.7	18.7	1470
06009	7.1	10.6	24.0	59.5	16.5	1467
12015	5.6	10.9	24.2	58.0	17.9	1465
18021	5.4	11.7	23.8	53.7	22.5	1472
TOT	359	643	1404	3360	1110	5874
PCT	6.1	10.9	23.9	57.2	18.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	*	.0	.0	1	*
45/49	.0	.0	.0	.0	.1	.1	.2	.1	21	.4
40/44	.0	*	*	.1	.8	3.2	9.2	17.5	1802	31.0
35/39	.0	.0	.1	.9	4.3	12.0	18.0	23.8	3432	59.0
30/34	.0	.0	.1	.3	1.9	2.8	2.7	1.5	541	9.3
25/29	.0	.0	.0	.0	.1	.1	*	.1	13	.2
20/24	.0	.0	.0	.0	.0	.1	.0	.0	3	.1
TOTAL	0	1	8	76	419	1064	1744	2501	5813	100.0
PCT	.0	*	.1	1.3	7.2	18.3	30.0	43.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50	.0	.0	*	*	.0	.0	.0	.0	.0	.0
45	*	*	*	.1	.1	*	*	.0	.0	*
40	2.4	4.2	6.4	6.3	5.0	2.8	1.8	1.6	.0	.5
35	9.1	6.1	6.3	5.1	6.6	5.8	7.2	11.9	.0	.9
30	1.1	.6	.3	.4	.5	1.0	2.1	3.4	.0	.1
25	*	.0	.0	.0	*	.1	.1	*	.0	.0
20	.0	.0	.0	.0	*	*	*	.0	.0	.0
TOT	12.6	11.0	12.9	11.8	12.2	9.7	11.2	17.0	.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	45	43	41	38	33	31	24	37.7	1469
06009	45	43	41	38	33	31	24	37.5	1465
12015	51	44	42	39	34	31	24	38.4	1466
18021	47	44	42	39	34	32	27	38.6	1471
TOT	51	43	42	38	33	31	24	38.1	5871

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.3	7.1	18.5	30.3	42.5	85	1454		
06009	.0	1.2	6.5	16.5	26.9	48.9	86	1455		
12015	.0	1.7	7.6	19.3	30.1	41.2	85	1453		
18021	.0	1.7	7.6	18.5	32.7	39.5	85	1459		
TOT	0	85	420	1064	1748	2504	85	5821		

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

MAY

AREA 0002 OSV BRAVO
36.5N 51.0W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.0	*	1	.0	*
7/8	.0	.0	.0	.0	.0	.0	.1	4	.0	.1
6	.0	.0	.0	.0	.0	*	.1	6	.0	.1
5	.0	.0	.0	.0	*	.3	.1	22	*	.3
4	.0	.0	.0	.0	.1	1.4	.1	96	.2	1.3
3	.0	.0	.0	*	.4	2.6	.0	174	.3	2.3
2	.0	.0	.0	*	3.4	5.0	.0	487	1.4	7.0
1	.0	.0	.0	*	10.5	4.4	.0	874	2.3	12.7
0	.0	.0	.0	.1	13.3	2.0	*	901	1.7	13.7
-1	.0	.0	.0	.9	13.0	.6	.0	847	.8	13.7
-2	.0	.0	.0	4.0	8.3	.3	.0	736	.4	12.2
-3	.0	.0	.0	7.4	4.1	.2	.0	687	.4	11.4
-4	.0	.0	*	5.9	2.0	.1	.0	467	.2	7.8
-5	.0	.0	.7	2.9	.7	.1	.0	250	.1	4.2
-6	.0	.0	1.1	.8	.4	.0	.0	129	*	2.2
-7/-8	.0	.0	.8	.6	.7	.0	.0	118	.1	2.0
-9/-10	.0	.1	.1	.3	.1	.0	.0	35	.0	.6
-11/-13	.1	.1	.0	.1	.0	.0	.0	10	.0	.2
TOTAL	3	154	9313	22	5844	8.0	92.0			
PCT	.1	.2	2.6	25.2	56.7	16.9	.4	100.0	8.0	92.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.5	.0	.0	.0	.0	.5	.2	.6	.0	.0	.0	.0	.8
1-2	.0	.6	.2	.0	.0	.0	.8	*	.5	1.0	.0	.0	.0	1.6
3-4	*	.6	2.0	.0	.0	.0	2.6	.0	.3	1.5	.1	.0	.0	2.0
5-6	.0	.2	1.4	.2	.0	.0	1.8	.0	.3	.9	.1	.0	.0	1.3
7	.0	.1	1.2	.7	.0	.0	2.0	.0	.3	2.1	.5	.0	.0	2.9
8-9	.0	.0	.6	.7	.0	.0	1.3	.0	*	.8	.4	.0	.0	1.3
10-11	.0	.0	.2	.2	.1	.0	.5	.0	*	.1	.5	.1	.0	.7
12	.0	.0	.4	.9	.0	.0	1.3	.0	.0	*	.2	.1	.0	.4
13-16	.0	.0	.1	.5	.1	.0	.6	.0	.0	.1	.5	.2	.0	.7
17-19	.0	.0	.0	*	.2	.0	.3	.0	.0	.0	.7	.2	.0	.9
20-22	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.1	.2	.0	.3
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	2.0	6.0	3.2	.4	.0	11.7	.2	2.2	6.6	3.1	.8	*	13.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.7	.0	.0	.0	.0	.9	.1	.7	.0	.0	.0	.0	.9
1-2	.0	.8	.3	.0	.0	.0	1.2	.0	.7	.7	.0	.0	.0	1.4
3-4	.0	.3	1.0	.0	.0	.0	1.4	.0	.3	.9	.2	.0	.0	1.4
5-6	.0	.3	.5	.2	*	.0	1.1	.0	.1	.7	*	.0	.0	.8
7	.1	.3	1.1	.5	.0	.0	2.0	.1	*	.9	.7	.0	.0	1.7
8-9	.0	.1	1.0	.6	.0	.0	1.8	.0	.2	.5	.2	.1	.0	1.0
10-11	.0	*	.7	.5	.1	.0	1.4	.0	*	.6	.9	*	.0	1.6
12	.0	.0	.2	.9	*	.0	1.1	.0	.0	.2	.4	.0	.0	.6
13-16	.0	.0	.5	.7	.3	.0	1.6	.0	.0	*	.3	.1	.0	.4
17-19	.0	.0	.0	.4	.3	.0	.7	.0	.0	.0	.2	*	.0	.3
20-22	.0	.0	.0	.2	.3	.0	.7	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.1	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	*	.0	*	.1	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.7	5.4	4.2	1.8	*	14.3	.2	2.1	4.6	2.9	.3	.0	10.0

PERIOD: (OVER-ALL) 1963-1972

MAY

AREA 0002 OSV BRAVO
36.5N 51.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.5	.5	.0	.0	.0		.7	.2	1.2	.5	.0	.0	.0		1.3
1-2	.0	.2	.5	.0	.0	.0		.7	.0	1.1	.6	.0	.0	.0		1.7
3-4	.0	.9	1.2	.5	.0	.0		2.1	.0	.5	1.8	.5	.0	.0		2.4
5-6	.0	.1	1.7	.4	.0	.0		2.2	.0	.3	1.2	.4	.0	.0		1.8
7	.5	.2	.8	.8	.0	.0		1.8	.0	.5	1.2	.3	.0	.0		1.6
8-9	.0	.0	.2	.5	.0	.0		.8	.0	.0	.3	.5	.0	.0		.3
10-11	.0	.0	.1	.4	.5	.0		.6	.0	.0	.2	.4	.0	.0		.5
12	.0	.0	.1	.2	.1	.0		.4	.0	.0	.5	.5	.0	.0		.1
13-16	.0	.0	.5	.2	.1	.0		.4	.0	.0	.0	.1	.1	.0		.2
17-19	.0	.0	.0	.5	.0	.0		.5	.0	.0	.0	.5	.1	.0		.1
20-22	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.2	.5		.2
23-25	.0	.0	.0	.0	.5	.0		.5	.0	.0	.0	.0	.1	.5		.1
26-32	.0	.0	.0	.0	.5	.0		.5	.0	.0	.0	.0	.5	.0		.5
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	2.0	4.7	2.6	.4	.0		9.9	.2	3.2	9.2	1.3	.5	.1		10.3

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	1.0	.0	.0	.0	.0		1.1	.0	.6	.5	.0	.0	.0		.6	
1-2	.0	1.0	.4	.0	.0	.0		1.4	.5	.9	.6	.0	.0	.0		1.5	
3-4	.0	.3	1.1	.0	.0	.0		1.4	.1	.8	1.8	.0	.0	.0		2.7	
5-6	.0	.4	1.6	.1	.0	.0		2.2	.0	.5	2.2	.2	.0	.0		2.9	
7	.0	.1	1.1	.1	.0	.0		1.3	.0	.3	2.7	.5	.0	.0		3.5	
8-9	.0	.1	.5	.5	.5	.0		1.2	.0	.5	.5	1.0	.0	.0		1.6	
10-11	.0	.0	.4	.5	.1	.0		1.0	.0	.0	1.0	.9	.1	.0		2.0	
12	.0	.0	.5	.4	.1	.0		.6	.0	.5	.4	1.3	.1	.0		1.8	
13-16	.0	.0	.5	.2	.1	.0		.4	.0	.0	.3	1.0	.2	.0		1.5	
17-19	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.1	.0	.0		.1	
20-22	.0	.0	.0	.0	.0	.5		.5	.0	.0	.0	.0	.1	.0		.1	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	2.8	5.3	1.0	.5	.5		10.7	.1	3.1	9.6	4.9	.5	.0		10.2	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.7	5.9	.1	.0	.0	.0	8.7	
1-2	.1	5.9	4.3	.0	.0	.0	10.3	
3-4	.1	4.1	11.4	.4	.0	.0	15.9	
5-6	.0	2.2	10.2	1.7	.5	.0	14.2	
7	.2	1.5	11.1	4.1	.0	.0	16.8	
8-9	.0	.4	4.5	4.1	.1	.0	9.2	
10-11	.0	.1	3.3	4.2	.5	.0	8.2	
12	.0	.5	1.4	4.4	.4	.0	6.3	
13-16	.0	.0	1.1	3.3	1.4	.0	5.9	
17-19	.0	.0	.0	1.5	1.1	.0	2.5	
20-22	.0	.0	.0	.3	1.1	.5	1.4	
23-25	.0	.0	.0	.1	.3	.5	.5	
26-32	.0	.0	.0	.5	.5	.1	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.1	20.2	47.3	24.1	5.1	.1	100.0	2049

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	2.0	7.1	6.7	3.2	1.3	.4	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1186	5
6-7	.0	.9	5.0	8.1	10.7	6.9	4.1	2.3	1.5	.4	.1	.5	.5	.0	.0	.0	.0	.0	.0	2174	7
8-9	.0	.3	1.3	4.7	3.8	5.9	4.0	3.2	1.1	.7	.2	.5	.0	.0	.0	.0	.0	.0	.0	1501	10
10-11	.0	.2	.1	.6	.5	1.2	.9	1.5	.7	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	368	12
12-13	.0	.0	.1	.0	.5	.1	.1	.6	.1	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	101	16
>13	.0	.0	.0	.5	.0	.0	.0	.0	.5	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	8	19
INDEX	.4	.8	3.2	1.0	.9	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	390	4
TOTAL	26	232	962	978	1155	620	656	430	396	139	78	38	18	0	0	0	0	0	0	5728	8
PCT	.5	4.1	16.6	17.1	20.2	10.8	11.3	7.5	6.9	2.4	1.4	.7	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

JUNE

AREA 0002 DSV BRAVO
56.5N 51.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRPL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	14.0	3.7	5.3	.0	1.1	.0	.0	23.4	4.7	.0	7.1	.1	.0	.0	64.7
NE	20.2	2.5	4.8	.0	1.1	.2	.0	28.7	3.7	.0	8.6	.7	.3	.0	58.1
E	24.2	1.5	8.6	.0	.4	.0	.1	34.4	2.0	.0	15.5	1.0	1.1	.0	46.0
SE	18.6	.9	6.9	.0	.2	.0	.0	26.2	2.8	.0	19.8	.2	.5	.0	50.9
S	14.8	1.4	3.9	.0	.2	.0	.0	20.3	2.1	.0	17.5	.5	.3	.0	59.4
SW	7.1	2.7	4.7	.0	.7	.0	.0	15.1	2.4	.3	13.6	.7	.4	.0	67.5
W	6.2	5.4	2.9	.0	1.2	.0	.0	15.5	5.3	.1	5.3	.5	.1	.1	73.2
NW	4.6	4.5	3.0	.0	1.4	.0	.2	13.4	5.6	.0	3.3	.0	.1	.1	77.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0	.0	3.0	.0	1.0	.0	.0	7.1	2.0	.0	11.1	.0	.0	.0	79.8
TOT PCT	13.2	2.8	4.9	.0	.8	*	.1	21.5	3.6	.1	11.2	.4	.3	*	62.8
TOT OBS:	5655														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRPL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	13.9	2.8	5.2	.0	.8	.0	.1	22.4	3.8	.1	11.3	.3	.4	.0	61.7
06009	14.6	2.9	6.5	.0	.5	.0	.0	24.4	3.4	.1	11.0	.5	.1	.1	60.4
12015	12.2	2.9	4.1	.0	1.1	.0	.1	20.0	4.2	.0	11.8	.8	.3	.0	62.7
18021	12.2	2.6	3.8	.0	.8	.1	.1	19.2	2.9	.0	10.8	.2	.4	.0	66.5
TOT PCT	13.2	2.8	4.9	.0	.8	*	.1	21.5	3.6	.1	11.2	.4	.3	*	62.8
TOT OBS:	5659														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+ TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.2	2.9	4.9	1.6	.5	*	10.1	15.9	11.8	9.0	9.1	10.4	10.7	9.6	10.3	10.0	10.0
NE	.1	2.5	4.4	1.9	1.0	*	9.9	17.8	9.3	10.6	9.5	9.6	9.8	9.7	9.8	10.9	10.9
E	.2	3.4	6.7	2.4	.9	*	13.1	16.7	13.6	13.2	13.3	13.5	13.8	12.3	12.4	12.5	12.5
SE	.2	2.9	5.9	2.8	.2	.0	11.9	16.0	11.3	11.9	12.2	13.6	12.3	12.1	10.8	10.9	10.9
S	.3	2.6	7.4	3.4	.1	.0	13.9	16.7	13.2	1.5	13.3	13.1	14.6	17.0	14.5	12.7	12.7
SW	.2	3.2	5.6	1.4	.1	.0	10.5	14.4	10.7	1.2	9.0	8.3	9.2	10.4	12.4	12.7	12.7
W	.3	4.2	6.7	2.0	.2	.0	12.9	14.5	12.5	13.2	14.8	12.3	11.3	12.7	13.3	13.0	13.0
NW	.3	4.1	8.8	2.6	.3	*	16.1	15.3	16.1	16.0	16.8	17.4	16.7	14.8	14.9	15.8	15.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	1.5	2.4	2.1	1.8	1.7	1.6	1.4	1.4	1.4
TOT OBS	194	1459	2792	1028	192	6	5671	15.6	710	708	709	708	707	709	707	707	712
TOT PCT	3.4	25.7	49.7	18.1	3.4	.1	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+ TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	1.3	4.6	3.2	.7	.2		10.1	13.9	10.4	9.7	10.1
NE	.9	4.5	2.8	1.4	.2		9.9	17.8	9.9	9.5	9.7
E	1.6	5.9	3.9	1.6	.2		13.1	16.7	13.4	13.4	13.0
SE	1.3	5.5	4.2	1.0	*		11.9	16.0	11.6	12.9	12.2
S	1.4	5.8	5.6	1.1	.0		13.9	16.7	12.8	13.2	15.8
SW	1.3	5.5	3.1	.5	*		10.5	14.4	10.9	8.6	9.8
W	1.8	6.6	3.7	.8	*		12.9	14.5	12.8	13.5	12.0
NW	1.7	8.3	5.0	1.1	*		16.1	13.3	16.0	17.1	15.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	2.0	2.0	1.6
TOT OBS	791	2657	1783	461	39	5671	13.6		1418	1417	1416
TOT PCT	12.9	46.9	31.4	8.1	.7	100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972AREA 0002 OSV BRAVO
56.5N 51.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	2.0	1.9	26.7	48.8	17.1	3.4	.1	15.4	100.0	1418
06009	2.0	1.5	27.2	49.0	16.6	3.7	.0	15.3	100.0	1417
12015	1.6	2.2	24.2	49.2	18.9	3.8	.1	15.9	100.0	1416
18021	1.4	1.1	24.7	49.9	20.0	2.7	.1	15.8	100.0	1420
TOT	99	95	1439	2792	1028	192	6	15.6		5671
PCT	1.7	1.7	25.7	49.2	18.1	3.4	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.6	.3	2.2	7.1		7.1
NE	.7	.3	1.4	7.5		7.1
E	.4	.2	1.2	11.3		7.5
SE	.6	.2	1.6	9.4		7.3
S	1.2	.7	3.0	9.0		6.8
SW	1.4	.5	2.9	5.7		6.4
W	1.5	.8	3.8	6.8		6.4
NW	1.2	.7	5.0	9.2		6.8
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.4	1.0		6.6
TOT OBS	439	215	1217	3798	5669	6.9
TOT PCT	7.7	3.8	21.5	67.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 08SCD	TOTAL OBS	MEAN CLOUD COVER	000 149	150 290	300 590	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.6	.3	2.2	7.1	7.1	.5	.	.7	1.5	3.9	1.5	.1	.1	.	.7	1.6		
NE	.7	.3	1.4	7.5	7.1	.6	.	.7	1.3	3.9	1.3	.3	.0	.1	.1	1.5		
E	.4	2.2	1.2	11.3	7.5	1.8	.	1.3	2.3	4.1	1.7	.3	.	.1	.2	1.2		
SE	.6	.2	1.6	9.4	7.3	2.1	.1	1.2	1.4	2.8	1.4	.1	.	.1	.5	2.2		
S	1.2	.7	3.0	9.0	6.8	1.9	.1	1.1	1.5	2.4	1.5	.2	.1	.1	.7	4.1		
SW	1.4	.5	2.9	5.7	6.4	.9	.1	.4	1.0	2.4	1.1	.2	.2	.2	.4	3.7		
W	1.5	.8	3.8	6.8	6.4	.4	.0	.4	1.1	5.2	1.7	.1	.	.1	.2	3.8		
NW	1.2	.7	5.0	9.2	6.8	.3	.	.4	1.5	7.2	3.1	.2	.1	.1	.1	3.2		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.2	.1	.4	1.0	6.6	.1	.0	.1	.1	.6	.2	.	.	.	.	.5	
TOT OBS	439	215	1217	3798	5669	6.9	489	20	360	663	1838	768	91	32	43	127	5669	
TOT PCT	7.7	3.8	21.5	67.0	100.0		8.6	.4	6.4	11.7	32.4	13.5	1.6	.6	.8	2.2	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR			VSBY (NM)			= OR		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>0
= OR >6500	2.0	2.9	1.9	2.9	3.0	3.0	3.0	3.0	3.0
= OR >5000	2.3	3.4	3.5	3.5	3.5	3.5	3.5	3.5	3.5
= OR >3500	3.4	5.0	5.1	5.1	5.1	5.1	5.1	5.1	5.1
= OR >2000	12.5	18.3	18.6	18.7	18.7	18.7	18.7	18.7	18.7
= OR >1000	26.9	48.5	50.5	50.9	51.0	51.1	51.1	51.1	51.1
= OR >600	28.7	57.4	61.4	62.4	62.7	62.8	62.8	62.8	62.8
= OR >300	29.0	60.3	66.1	68.0	68.9	69.1	69.1	69.2	69.2
= OR >150	29.0	60.4	66.2	68.2	69.2	69.4	69.5	69.6	69.6
= OR >0	29.0	60.4	66.5	69.0	71.4	73.6	77.4	78.2	78.2
TOTAL	1645	3429	3775	3915	4034	4175	4394	4436	4436

TOTAL NUMBER OF OBS: 5674

PCT FREQ NM <5/8: 21.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
0.6	4.7	5.4	3.1	2.1	4.2	8.9	9.1	47.4	8.5	5677

PERIOD: (PRIMARY) 1955-1972
(OVER-ALL) 1948-1972

JUNE

AREA 0002 OSV BRAVN
50.3N 51.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.5	.3	.2	.1	.1	.0	.0	.0	1.3	
	NO PCP	.2	.3	1.0	1.4	1.3	.8	.3	.3	.0	.1	9.6	
	TOT %	.2	.4	1.5	1.7	1.5	.9	.4	.3	.0	.1	6.9	
1/2<1	PCP	.0	.1	.3	.3	.3	.1	.0	.0	.0	.0	1.1	
	NO PCP	.2	.1	.2	.3	.3	.2	.0	.1	.0	.0	1.4	
	TOT %	.2	.2	.5	.6	.6	.2	.1	.1	.0	.0	2.5	
1<2	PCP	.1	.2	.5	.4	.2	.1	.0	.0	.0	.0	1.5	
	NO PCP	.1	.1	.2	.2	.2	.1	.0	.0	.0	.0	1.0	
	TOT %	.2	.3	.7	.6	.4	.1	.1	.0	.0	.0	2.5	
2<5	PCP	.4	.6	1.1	.7	.5	.9	.2	.2	.0	.0	4.0	
	NO PCP	.2	.2	.5	.4	.5	.2	.1	.1	.0	.1	2.3	
	TOT %	.6	.8	1.6	1.1	1.0	.5	.3	.3	.0	.1	6.3	
5<10	PCP	1.5	1.4	1.9	1.2	1.4	.9	1.0	1.6	.0	.1	11.2	
	NO PCP	2.0	3.0	3.2	2.0	3.5	2.8	2.9	4.6	.0	.3	25.7	
	TOT %	4.4	4.6	5.1	3.2	4.9	3.7	4.9	6.2	.0	.4	36.9	
10+	PCP	.3	.2	.2	.2	.3	.2	.6	.3	.0	.0	2.3	
	NO PCP	4.2	3.3	3.6	4.5	5.2	4.8	7.0	8.8	.0	1.1	42.3	
	TOT %	4.5	3.5	3.8	4.7	5.5	5.0	7.6	9.1	.0	1.2	44.6	
TOT OBS													5695
TOT PCT		10.1	9.9	13.1	11.9	13.9	10.5	12.9	16.0	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.3	
	4-10	.1	.2	.5	.5	.4	.4	.2	.2	.0	.0	2.4	
	11-21	.1	.2	.8	.9	.8	.4	.1	.1	.0	.0	3.3	
	22+	.0	.0	.1	.3	.2	.0	.0	.0	.0	.0	.7	
	TOT %	.2	.4	1.4	1.7	1.5	.9	.4	.3	.0	.1	6.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.1	.1	.1	.1	.0	.0	.0	.6	
	11-21	.1	.1	.3	.3	.3	.1	.0	.0	.0	.0	1.4	
	22+	.0	.1	.1	.2	.2	.0	.0	.0	.0	.0	.6	
	TOT %	.2	.2	.5	.6	.6	.2	.1	.1	.0	.0	2.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.5	
	11-21	.1	.1	.3	.2	.1	.0	.0	.0	.0	.0	.8	
	22+	.1	.1	.3	.3	.2	.0	.0	.0	.0	.0	1.1	
	TOT %	.2	.3	.7	.6	.4	.1	.1	.0	.0	.0	2.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.2	.1	.1	.0	.1	.1	.0	.0	.9	
	11-21	.3	.2	.6	.5	.4	.3	.1	.2	.0	.0	2.6	
	22+	.2	.5	.8	.5	.4	.1	.1	.0	.0	.0	2.7	
	TOT %	.6	.9	1.6	1.1	1.0	.5	.3	.3	.0	.1	6.3	
5<10	0-3	.1	.0	.1	.0	.1	.0	.0	.1	.0	.0	.8	
	4-10	1.2	1.1	1.3	.7	.7	.9	1.2	1.5	.0	.0	8.4	
	11-21	2.0	2.0	2.3	1.7	2.7	1.9	2.1	3.4	.0	.0	18.2	
	22+	1.1	1.5	1.4	.9	1.5	.9	.9	1.2	.0	.0	9.4	
	TOT %	4.4	4.6	5.1	3.2	4.9	3.7	4.3	6.2	.0	.4	36.8	
10+	0-3	.1	.1	.1	.1	.1	.1	.2	.2	.0	1.2	2.2	
	4-10	1.3	1.0	1.3	1.4	1.2	1.8	2.6	2.3	.0	.0	12.9	
	11-21	2.3	1.8	1.7	2.3	3.1	2.8	3.8	5.1	.0	.0	22.4	
	22+	.7	.7	.6	.9	1.1	.4	1.1	1.6	.0	.0	7.1	
	TOT %	4.5	3.5	3.8	4.7	5.5	5.0	7.7	9.2	.0	1.2	45.0	
TOT OBS													5669
TOT PCT		10.1	9.9	13.1	11.9	13.8	10.5	12.9	16.1	.0	1.7	100.0	

JUNE

PERIOD: (PRIMARY) 1959-1972
(OVER-ALL) 1948-1972AREA 0002 OSV BRAVO
56.5M 51.0M

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY 1GT	TOTAL OBS
00003	9.7	.1	5.4	11.6	33.8	13.0	.8	1.0	1.1	2.1	78.6	21.4	1419
06009	8.4	.3	6.7	11.1	33.1	15.8	1.6	.4	.5	2.2	80.1	19.9	1419
12015	8.0	.7	7.2	13.1	31.0	12.1	2.0	.4	.7	2.3	77.5	22.5	1417
18021	8.4	.4	6.0	10.8	31.7	13.5	2.0	.5	.8	2.3	76.4	23.6	1422
TOT	489	22	360	663	1839	771	91	32	43	127	4437	1240	5677
PCT	8.6	.4	6.3	11.7	32.4	13.6	1.6	.6	.8	2.2	78.2	21.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	8.9	2.3	2.3	6.3	36.5	44.2	1418
06009	7.0	2.3	2.3	6.2	38.1	44.2	1420
12015	5.7	3.2	3.0	5.9	36.9	45.3	1416
18021	6.4	2.5	2.5	6.7	35.7	46.3	1422
TOT	392	144	142	357	2087	2554	5676
PCT	6.9	2.5	2.3	6.3	36.8	45.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	9.7	15.9	30.3	49.0	20.7	1417
06009	8.5	15.9	29.7	51.0	19.2	1419
12015	8.1	16.9	31.9	46.0	22.1	1416
18021	8.4	15.4	28.6	48.0	23.3	1422
TOT	493	909	1709	2754	1211	5674
PCT	8.7	16.0	30.1	48.3	21.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	.0	.1	.0	7	.1
45/49	.0	.0	.0	.0	.2	1.6	5.0	5.3	681	12.1
40/44	.3	.0	.0	.1	1.8	6.7	21.2	39.4	3891	69.2
35/39	.0	.0	.0	.1	.6	3.6	6.5	7.5	1024	18.2
30/34	.0	.0	.0	.0	.1	.1	.1	.1	20	.4
TOTAL	0	0	1	14	150	673	1842	2943	5623	100.0
PCT	.0	.0	.0	.2	2.7	12.0	32.8	52.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
45/49	.8	1.1	1.6	1.9	3.0	1.7	1.3	.7	.0	.2
40/44	7.1	7.6	10.3	8.9	9.3	6.7	7.9	10.0	.0	1.2
35/39	2.1	1.1	1.0	1.1	1.6	1.9	3.7	5.2	.0	.3
30/34	.0	.0	.0	.0	.0	.1	.0	.2	.0	.0
TOTAL	10.1	9.9	13.0	11.9	13.9	10.5	13.0	16.1	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	50	46	45	41	37	35	34	41.2	1419
06009	49	46	45	41	37	35	32	41.0	1420
12015	50	47	46	42	37	36	34	41.9	1416
18021	51	48	46	42	38	36	34	42.3	1422
TOT	51	47	45	42	37	35	32	41.6	5677

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.2	1.4	10.5	32.6	55.4	90		90	1407
06009	.0	.1	3.2	10.6	29.2	56.9	89		89	1409
12015	.0	.6	2.7	12.0	34.8	49.9	88		88	1404
18021	.0	.1	3.4	14.8	34.6	47.1	88		88	1410
TOT	0	15	130	674	1846	2943	89		89	5630

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

JUNE

AREA 0002 OSV BRAVO
56.5N 51.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.0	4	.0	.1
7/8	.0	.0	.1	.0	.1	.2	24	.0	.4
6	.0	.0	.1	.2	.3	.1	24	.0	.6
5	.0	.0	.1	.2	.9	.0	67	.1	1.1
4	.0	.0	.1	1.2	1.7	.0	168	.5	2.5
3	.0	.0	.2	3.6	2.2	.0	339	1.1	4.9
2	.0	.0	.6	8.1	3.0	.0	666	1.9	9.9
1	.0	.0	1.6	14.7	2.2	.0	1031	2.3	16.3
0	.0	.0	3.0	13.3	.7	.0	1078	1.8	17.3
-1	.0	.1	7.0	7.9	.4	.0	865	1.1	14.2
-2	.0	.3	5.5	5.0	.1	.0	619	.8	10.2
-3	.0	.8	3.5	1.8	.1	.0	349	.7	5.5
-4	.0	.7	2.2	.9	.0	.0	217	.5	3.3
-5	.0	.4	.8	.2	.0	.0	77	.2	1.1
-6	.0	.1	.7	.1	.0	.0	32	.1	.8
-7/-8	.0	.1	.3	.0	.0	.0	27	.1	.4
-9/-10	.0	.1	.0	.0	.0	.0	8	.0	.1
-11/-13	.0	.1	.0	.0	.0	.0	4	.0	.1
TOTAL	1	1571	3234	669	17	5649	632	5017	
PCT	.0	2.8	27.8	57.2	11.8	.3	100.0	11.2	88.8

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.2	.0	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.8	.0	.0	.0	.0	.8	.0	.6	.2	.0	.0	.0	.8
3-4	.0	.5	1.1	.1	.0	.0	1.7	.0	.1	.5	.1	.0	.0	.7
5-6	.0	.2	.9	.2	.0	.0	1.3	.0	.1	.7	.2	.0	.0	1.0
7	.0	.2	.7	.4	.0	.0	1.3	.0	.2	.9	.1	.0	.0	1.2
8-9	.0	.1	.4	.0	.0	.0	.6	.0	.1	.5	.0	.0	.0	.6
10-11	.0	.0	.3	.6	.0	.0	.9	.0	.0	.4	.6	.0	.0	1.1
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.8	.0	.0	.8
13-16	.0	.0	.1	.3	.1	.0	.5	.0	.0	.0	.2	.4	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	3.6	1.7	.2	.0	7.5	.0	1.4	3.3	2.0	.5	.0	7.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.7	.5	.0	.0	.0	1.2	.0	1.3	.6	.0	.0	.0	1.8
3-4	.0	.6	1.0	.1	.0	.0	1.8	.0	.6	2.7	.0	.0	.0	3.3
5-6	.0	.4	1.4	.1	.0	.0	1.9	.0	.1	1.3	.3	.0	.0	1.7
7	.0	.1	1.9	.5	.0	.0	2.5	.0	.0	1.6	.8	.1	.0	2.5
8-9	.0	.1	1.0	.5	.0	.0	1.5	.0	.0	.8	1.4	.0	.0	2.2
10-11	.0	.0	.4	.4	.0	.0	.8	.0	.0	.2	.6	.0	.0	.8
12	.0	.0	.1	.1	.0	.0	.3	.0	.0	.0	.1	.0	.0	.2
13-16	.0	.0	.0	.3	.1	.0	.5	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.3	6.2	2.1	.4	.0	11.2	.0	2.5	7.0	3.4	.1	.0	13.0

PERIOD: (OVER-ALL) 1963-1972

JUNE

AREA 0002 DSV BRAVO
56.5N 51.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	.8	*	.2	.0	.0	1.2	.1	.7	.0	.0	.0	.0	.9	
1-2	.1	1.0	.5	.0	.0	.0	1.7	.0	1.4	.7	.0	.0	.0	2.2	
3-4	.0	.5	2.2	.4	.0	.0	3.0	.0	1.0	2.8	.1	.0	.0	3.9	
5-6	.0	*	1.8	.6	.0	.0	2.5	.0	.5	1.6	.2	.0	.0	2.3	
7	.0	.1	1.2	1.2	.0	.0	2.5	.0	.3	1.3	.1	.0	.0	1.7	
8-9	.0	*	.4	1.0	*	.0	1.4	.0	.0	.3	.4	.0	.0	.7	
10-11	.0	.0	.2	.2	.0	.0	.4	.0	.0	.3	.3	.0	.0	.6	
12	.0	.0	*	.4	.0	.0	.4	.0	.0	.1	.1	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	*	*	.0	.1	.0	.0	*	*	.0	.0	.1	
20-22	.0	.0	.0	*	*	.0	.1	.0	.0	.0	*	*	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	2.6	6.4	3.7	.1	.0	13.2	.1	3.9	7.2	1.3	*	.0	12.5	

W								NW								TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT	
<1	.2	.7	.0	.0	.0	.0	.9	.1	.4	.0	.0	.0	.0	.5	98.1	
1-2	*	1.2	.4	.0	.0	.0	1.7	*	1.0	.4	.0	.0	.0	1.4		
3-4	.0	1.2	2.3	.1	.0	.0	3.6	*	1.1	2.0	.2	.0	.0	3.4		
5-6	.0	.5	2.2	.4	.0	.0	3.1	.0	.5	2.9	.4	.0	.0	3.8		
7	.0	.4	2.0	.7	.0	.0	3.1	.0	.3	3.6	.6	.0	.0	4.5		
8-9	.0	.1	.4	.4	.0	.0	.9	.0	.2	1.2	.8	.0	.0	2.1		
10-11	.0	.0	.4	.3	.0	.0	.7	.0	*	.3	.5	*	.0	.9		
12	.0	.0	*	.2	*	.0	.3	.0	.0	*	.8	.0	.0	.8		
13-16	.0	.0	.1	.1	.1	.0	.3	.0	.0	.1	.5	.2	.0	.7		
17-19	.0	.0	.0	.2	.1	.0	.3	.0	.0	.0	.1	.1	.0	.2		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.2	4.1	7.8	2.4	.2	.0	14.7	.2	3.5	10.5	4.0	.3	.0	18.5		

W								NW								TOTAL	
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		PCT	
<1	.2	.7	.0	.0	.0	.0	.9	.1	.4	.0	.0	.0	.0	.5			
1-2	*	1.2	.4	.0	.0	.0	1.7	*	1.0	.4	.0	.0	.0	1.4			
3-4	.0	1.2	2.3	.1	.0	.0	3.6	*	1.1	2.0	.2	.0	.0	3.4			
5-6	.0	.5	2.2	.4	.0	.0	3.1	.0	.5	2.9	.4	.0	.0	3.8			
7	.0	.4	2.0	.7	.0	.0	3.1	.0	.3	3.6	.6	.0	.0	4.5			
8-9	.0	.1	.4	.4	.0	.0	.9	.0	.2	1.2	.8	.0	.0	2.1			
10-11	.0	.0	.4	.3	.0	.0	.7	.0	*	.3	.5	*	.0	.9			
12	.0	.0	*	.2	*	.0	.3	.0	.0	*	.8	.0	.0	.8			
13-16	.0	.0	.1	.1	.1	.0	.3	.0	.0	.1	.5	.2	.0	.7			
17-19	.0	.0	.0	.2	.1	.0	.3	.0	.0	.0	.1	.1	.0	.2			
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*			
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.2	4.1	7.8	2.4	.2	.0	14.7	.2	3.5	10.5	4.0	.3	.0	18.5		98.1	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	2.4	3.9	.1	.0	.0	.0	6.4	2008
1-2	.2	7.9	3.4	.0	.0	.0	11.6	
3-4	.2	5.6	14.6	1.1	.0	.0	21.6	
5-6	*	2.5	12.7	2.2	.0	.0	17.5	
7	.0	1.6	13.2	4.5	.1	.0	19.4	
8-9	.0	.6	4.9	4.4	*	.0	10.0	
10-11	.0	.1	2.5	3.6	.1	.0	6.3	
12	*	.1	.3	2.6	.1	.0	3.2	
13-16	*	*	.2	1.5	.9	*	2.8	
17-19	.0	.0	*	.5	.5	.0	1.0	
20-22	.0	.0	.0	.1	.2	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.0	22.4	52.0	20.6	1.9	* 100.0		

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.2	2.4	11.7	8.5	5.2	.8	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1572	4
6-7	.0	.5	5.9	7.7	11.4	5.9	3.3	1.4	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1980	7
8-9	.0	.1	1.3	2.1	5.0	3.4	3.7	1.9	1.3	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	1058	9
10-11	.0	.1	.3	.3	.5	.4	.9	.6	.7	.6	.3	.3	.1	.0	.0	.0	.0	.0	.0	281	12
12-13	.0	.0	*	*	*	.1	.2	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	60	14
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	21
INDEX	.4	1.5	3.4	1.4	.6	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	404	4
TOTAL	33	247	1212	1075	1221	580	455	227	145	75	40	27	22	0	0	0	0	0	0	5359	7
PCT	.6	4.6	22.6	20.1	22.8	10.8	8.5	4.2	2.7	1.4	.7	.5	.4	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

JULY

AREA 0002 DSV BRAVO
96.9N 91.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DR7L	PR2G	SNOW	OTHER	HAIL	PCPN AT	PCPN PAST	THDR	FOG	FOG WD	SMOKE	SPRAY	NO	SIG	SEA
				PCPN		FRZN		OB TIME	HR	LTNG	WD	PCPN	HAZE	BLWG	DUST		
						PCPN						PAST HR		SNOW			
N	11.1	2.8	9.8	.0	.0	.0	.0	19.7	4.1	.0	9.1	1.1	.4	.0	.0	65.6	
NE	17.9	.5	10.8	.0	.0	.0	.0	29.0	2.4	.0	20.4	.9	.0	.0	.0	47.2	
E	18.9	.3	12.9	.0	.0	.0	.0	31.9	1.7	.0	22.9	1.3	.0	.0	.0	42.2	
SE	18.2	.7	8.2	.0	.0	.0	.0	27.0	2.2	.0	28.7	1.2	.1	.0	.0	40.8	
S	10.1	.8	6.3	.0	.0	.0	.0	17.0	1.8	.1	31.0	1.2	.3	.0	.0	48.6	
SW	9.8	2.0	9.3	.0	.0	.0	.0	19.0	1.1	.1	19.5	.9	.3	.0	.0	65.3	
W	9.7	1.6	4.8	.0	.0	.0	.0	11.9	2.6	.1	10.9	.4	.3	.0	.0	73.7	
NW	4.0	2.4	3.3	.0	.0	.0	.0	9.7	4.2	.0	8.0	.4	.2	.0	.0	77.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3	1.3	4.0	.0	.0	.0	.0	6.7	1.3	.0	26.7	.7	.0	.0	.0	64.7	
TOT PCT	10.9	1.3	6.9	.0	.0	.0	.0	19.0	2.4	.1	20.7	.9	.2	.0	.0	56.8	
TOT OBS:	5913																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DR7L	PR2G	SNOW	OTHER	HAIL	PCPN AT	PCPN PAST	THDR	FOG	FOG WD	SMOKE	SPRAY	NO	SIG	SEA
				PCPN		FRZN		OB TIME	HR	LTNG	WD	PCPN	HAZE	BLWG	DUST		
						PCPN						PAST HR		SNOW			
0000	11.9	1.2	7.9	.0	.0	.0	.0	20.9	2.1	.1	20.4	.7	.2	.0	.0	55.7	
0600	12.5	1.5	8.4	.0	.0	.0	.0	22.3	2.2	.1	20.2	.6	.0	.0	.0	54.7	
1200	10.0	1.2	6.2	.0	.0	.0	.0	17.3	3.3	.0	21.4	1.3	.2	.0	.0	56.4	
1800	9.3	1.4	5.1	.0	.0	.0	.0	15.5	1.9	.1	20.7	1.0	.3	.0	.0	60.3	
TOT PCT	10.9	1.3	6.9	.0	.0	.0	.0	19.0	2.4	.1	20.7	.9	.2	.0	.0	56.8	
TOT OBS:	5916																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL	PCT	MEAN	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
								OBS	FRQ	SPD								
N	.5	2.6	3.4	1.0	.2	.0		7.8	13.7		9.3	7.2	8.0	8.4	6.8	7.6	7.5	7.5
NE	.4	2.5	2.8	1.4	.1	*		7.1	14.1		7.3	7.1	7.1	7.3	7.4	7.3	7.1	6.7
E	.5	3.4	5.0	1.7	.2	*		10.7	14.4		9.6	9.6	10.0	12.0	11.5	10.8	12.0	10.4
SE	.5	4.8	7.8	2.1	.2	*		15.4	14.3		15.0	14.8	13.6	15.4	17.3	17.1	19.4	14.9
S	.6	5.2	11.0	3.4	*	.0		20.2	14.9		20.4	20.8	21.4	17.8	20.0	20.8	20.1	20.4
SW	.4	4.0	6.3	1.6	*	.0		12.3	13.8		13.3	12.8	11.9	11.1	11.7	11.7	12.5	13.3
W	.3	4.3	6.3	1.7	.1	*		12.8	14.1		13.4	13.6	14.3	13.0	11.2	11.8	12.7	12.2
NW	.4	3.3	5.5	1.8	.2	.0		11.1	14.6		10.4	10.7	10.7	12.3	12.0	10.6	10.8	11.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0		1.3	3.5	3.1	2.7	2.0	2.3	1.9	3.3
TOT OBS	357	1796	2892	871	64	3	5943		13.9		744	745	742	742	737	743	742	748
TOT PCT	6.0	30.2	48.0	14.7	1.1	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL	PCT	MEAN	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	03	06	12	18
							OBS	FREQ	SPD					
N	1.5	3.8	2.0	.6	.0		7.8	13.7		8.3	8.2	7.2	7.5	
NE	1.4	3.3	1.8	.6	*		7.1	14.1		7.2	7.2	7.3	6.9	
E	1.7	5.1	3.2	.7	*		10.7	14.4		9.6	11.0	11.1	11.2	
SE	2.2	6.0	4.5	.7	.1		15.4	14.3		14.9	14.3	17.2	15.2	
S	2.1	9.9	7.6	.6	.0		20.2	14.9		20.6	19.6	20.4	20.2	
SW	1.8	6.5	3.5	.4	.0		12.3	13.8		13.0	11.5	11.7	12.9	
W	2.0	6.5	3.6	.7	*		12.8	14.1		13.5	13.6	11.5	12.5	
NW	1.6	5.5	3.3	.7	*		11.1	14.6		10.5	11.5	11.3	11.0	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	2.5						2.5	.0		2.4	2.9	2.2	2.6	
TOT OBS	1006	2883	1753	291	10	5943		13.9		1489	1484	1480	1490	
TOT PCT	16.9	48.5	29.5	4.9	.2		100.0			100.0	100.0	100.0	100.0	

JULY

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972AREA 0002 OSV RRAVD
56.5N 51.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	0-2	3-4	5-7	8-10	TOTAL	MEAN
0000	2.4	4.0	31.0	47.4	14.3	.8
0600	2.9	3.0	30.7	48.0	14.3	1.1
1200	2.2	4.1	29.1	47.9	13.4	1.3
1800	2.6	2.9	30.0	48.7	14.6	1.1
TOT	130	207	1796	2852	871	64
PCT	2.5	3.5	30.2	48.0	14.7	1.1

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL	MEAN
N	.6	.1	1.6	5.6	7.1	.6
NE	.4	.2	.6	6.0	7.4	1.0
E	.4	.1	1.1	9.2	7.5	2.1
SE	.6	.3	1.9	12.6	7.4	3.8
S	1.5	.6	3.7	14.4	7.0	5.2
SW	2.0	.8	2.4	7.2	6.3	2.0
W	1.9	.6	3.0	7.4	6.4	1.1
NW	1.4	.4	2.9	6.5	6.6	.6
VAR	.0	.0	.0	.0	.0	.0
CALM	.2	.2	.4	1.7	6.8	.5
TOT OBS	520	186	1041	4174	5921	1000
TOT PCT	8.8	3.1	17.6	70.5	100.0	16.9

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.6	.8	.5	1.1	2.8	1.3	.1	.8	.1	.1	1.2	
1.0	.8	1.0	1.3	2.2	.4	.1	.8	.1	.1	1.0	
2.1	.2	1.7	1.5	2.7	.7	.3	.1	.1	.1	1.2	
3.8	.5	1.5	1.7	3.0	1.2	.3	.2	.2	.3	2.6	
5.2	.1	1.5	2.0	3.3	1.4	.4	.3	.3	.6	5.1	
2.0	.1	.7	1.0	2.1	1.0	.2	.2	.2	.4	4.4	
1.1	.8	.8	1.2	3.8	1.6	.2	.1	.1	.2	3.8	
.6	.5	1.3	4.2	1.7	.1	.1	.1	.1	.1	2.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.5	.3	.2	.6	.2	.1	.1	.1	.1	.1	.5	
1000	47	503	669	1458	559	105	59	87	129	1325	5921
16.9	.8	8.5	11.3	24.6	9.4	1.8	1.0	1.1	2.2	22.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.9	3.1	3.2	3.3	3.3	3.3	3.3	3.3
= OR >5000	2.2	4.0	4.1	4.2	4.3	4.3	4.3	4.3
= OR >3500	3.2	5.7	5.9	6.0	6.0	6.1	6.1	6.1
= OR >2000	8.6	14.8	15.3	15.4	15.5	15.5	15.5	15.5
= OR >1000	19.3	37.6	39.4	39.8	40.0	40.1	40.1	40.1
= OR >600	21.3	43.5	49.8	50.8	51.3	51.4	51.4	51.4
= OR >300	22.0	49.3	56.3	58.5	59.4	59.8	59.9	59.9
= OR >150	22.0	49.4	56.6	58.9	60.0	60.5	60.6	60.7
= OR >0	22.0	49.5	57.0	60.0	63.4	68.5	76.0	77.6
TOTAL	1301	2931	3376	3551	3754	4055	4500	4595

TOTAL NUMBER OF OBS: 5921

PCT FREQ NH <5/8: 22.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL
9.6	4.7	4.7	2.0	1.4	2.9	5.9	6.4	45.6	16.8	5932

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

JULY

AREA 0002 DSV BRAVO
56.5N 51.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.2	.5	.7	.7	.9	.2	*	.0	.1	2.7	
	NO PCP	.4	.7	1.4	2.5	3.8	1.5	.8	.4	.0	.5	11.9	
	TOT %	.5	.8	1.8	3.2	4.5	1.8	1.0	.5	.0	.5	14.5	
1/2<1	PCP	.1	.1	.2	.3	.2	.1	.1	*	.0	.0	1.0	
	NO PCP	.1	.2	.3	.7	.7	.3	.2	.1	.0	.1	2.6	
	TOT %	.2	.3	.5	1.0	.9	.4	.2	.1	.0	.1	3.6	
1<2	PCP	*	.2	.4	.4	.2	.1	*	.1	.0	.0	1.4	
	NO PCP	*	.1	.2	.3	.7	.1	.1	.2	.0	*	1.8	
	TOT %	.1	.4	.6	.7	.9	.2	.1	.2	.0	*	3.2	
2<5	PCP	.4	.6	1.0	1.1	.7	.7	.4	.2	.0	*	4.6	
	NO PCP	.1	.3	.5	.7	.8	.4	.3	.2	.0	.1	3.4	
	TOT %	.5	.9	1.4	1.8	1.6	.6	.7	.4	.0	.1	8.0	
5<10	PCP	.8	.9	1.3	1.6	1.5	.8	.7	.6	.0	.1	8.4	
	NO PCP	2.1	1.9	2.5	3.1	4.8	3.4	4.1	3.3	.0	.7	26.0	
	TOT %	2.9	2.8	3.8	4.8	6.4	4.2	4.8	3.8	.0	.8	34.4	
10+	PCP	.2	.1	.1	.2	.1	.1	.1	.2	.0	.0	1.0	
	NO PCP	3.4	1.9	2.5	3.9	5.9	4.9	5.9	5.9	.0	1.0	35.3	
	TOT %	3.6	2.0	2.6	4.0	6.0	5.0	6.0	6.1	.0	1.0	36.3	
TOT OBS													5913
TOT PCT		7.8	7.1	10.7	15.4	20.2	12.2	12.8	11.1	.0	2.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	.1	.1	.2	.1	.1	.1	.0	.5	1.2	
	4-10	.2	.5	.8	.9	1.1	.9	.6	.2	.0		5.2	
	11-21	.2	.2	.8	1.8	2.7	.8	.3	.2	.0		7.0	
	22+	*	*	.1	.4	.4	.1	*	*	.0		1.0	
	TOT %	.5	.8	1.8	3.1	4.4	1.8	.9	.5	.0	.5	14.5	
1/2<1	0-3	.0	*	*	.0	*	*	.0	.0	.0	.1	.1	
	4-10	.1	.1	.2	.2	.2	.1	.1	.1	.0		1.1	
	11-21	.1	.1	.2	.6	.5	.2	.1	*	.0		1.8	
	22+	*	.1	.1	.2	.2	*	*	*	.0		.6	
	TOT %	.2	.3	.5	1.0	.9	.4	.2	.1	.0	.1	3.6	
1<2	0-3	.0	.1	.0	*	.1	*	.0	.0	.0	*	.2	
	4-10	*	.1	.1	.2	.2	.1	*	.1	.0		.8	
	11-21	*	.1	.3	.2	.5	.1	*	.1	.0		1.4	
	22+	*	.1	.3	.2	.2	*	*	*	.0		.8	
	TOT %	.1	.3	.6	.7	.9	.2	.1	.2	.0	*	3.2	
2<5	0-3	.0	*	*	.0	*	.0	*	*	.0	.1	.2	
	4-10	.1	.2	.2	.5	.4	.2	.2	.1	.0		1.9	
	11-21	.2	.4	.7	.8	.7	.3	.3	.2	.0		3.6	
	22+	.1	.3	.5	.6	.4	.1	.1	.1	.0		2.2	
	TOT %	.5	.9	1.4	1.8	1.6	.6	.7	.4	.0	.1	7.9	
5<10	0-3	.1	.2	.2	.2	.2	.1	.1	.1	.0	.8	2.0	
	4-10	.7	.7	1.2	1.6	1.5	1.0	1.2	.9	.0		8.8	
	11-21	1.4	1.0	1.7	2.2	3.3	2.1	2.5	1.8	.0		16.1	
	22+	.7	.9	.7	.7	1.4	.9	1.0	1.0	.0		7.3	
	TOT %	2.9	2.8	3.8	4.8	6.3	4.2	4.8	3.8	.0	.8	34.3	
10+	0-3	.3	.1	.1	.1	.1	.2	.2	.2	.0	1.0	2.3	
	4-10	1.4	.8	1.0	1.5	1.9	1.7	2.2	1.9	.0		12.4	
	11-21	1.6	1.0	1.2	2.2	3.2	2.7	3.1	3.2	.0		18.1	
	22+	.3	.1	.2	.3	.8	.5	.7	.8	.0		3.8	
	TOT %	3.6	2.0	2.6	4.1	6.1	5.1	6.1	6.1	.0	1.0	36.5	
TOT OBS													5941
TOT PCT		7.8	7.1	10.7	15.4	20.2	12.3	12.8	11.1	.0	2.5	100.0	

JULY

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972AREA 0002 OSV RRAVD
36.3N 91.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	18.4	.5	8.2	9.9	24.4	9.7	2.1	1.5	1.0	2.0	77.7	22.3	1482
06009	17.1	.9	8.1	11.4	26.4	10.0	1.8	.9	1.3	2.2	80.2	19.8	1483
12015	16.1	1.2	9.5	12.8	23.6	8.8	1.6	.7	1.1	1.9	77.3	22.7	1473
18021	15.9	.5	8.2	11.2	24.1	9.2	1.6	.8	1.1	2.6	75.3	24.7	1485
TOT	1000	47	503	670	1458	539	105	59	67	129	4597	1326	3923
PCT	16.9	.8	8.5	11.3	24.6	9.4	1.8	1.0	1.1	2.2	77.6	22.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	15.1	4.0	3.0	7.9	33.5	36.5	1488
06009	15.2	3.4	3.0	8.8	34.8	34.9	1485
12015	13.6	3.6	3.6	8.6	34.5	35.9	1480
18021	14.0	3.4	3.7	6.3	34.2	38.9	1491
TOT	861	213	190	471	2037	2172	3944
PCT	14.5	3.6	3.2	7.9	34.3	36.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	18.4	27.8	40.6	38.4	21.0	1481
06009	17.3	27.2	41.5	39.6	18.8	1483
12015	16.2	27.9	42.8	35.4	21.8	1473
18021	15.9	25.9	39.2	36.9	23.9	1484
TOT	1004	1610	2429	2226	1266	5921
PCT	17.0	27.2	41.0	37.6	21.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	.1	*	.0	4	.1
50/54	.0	.0	.0	.0	.1	.7	4.2	4.0	529	9.0
45/49	.0	.0	.0	.0	.2	3.1	16.2	47.7	3945	67.1
40/44	.0	.0	.0	.0	.2	1.9	6.8	14.7	1386	23.6
35/39	.0	.0	.0	.0	.0	.0	*	.2	12	.2
TOTAL	0	0	0	0	29	340	1600	3907	5876	100.0
PCT	.0	.0	.0	.0	.5	5.8	27.2	66.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	*	*	.0	.0	.0	*
.2	.4	.7	1.4	2.8	1.7	.8	.5	.0	.4
4.5	5.0	8.1	11.8	14.2	7.9	8.0	6.2	.0	1.4
3.0	1.7	1.8	2.2	3.1	2.6	3.9	4.4	.0	.8
.0	.0	*	*	*	*	.1	*	.0	.0
7.8	7.1	10.7	15.4	20.1	12.3	12.9	11.2	.0	2.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	52	51	50	46	42	40	39	45.7	1488
06009	53	51	49	46	41	40	37	45.5	1485
12015	54	53	51	46	43	41	38	46.5	1480
18021	56	53	51	47	43	42	40	46.9	1492
TOT	56	52	50	46	42	40	37	46.2	5945

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.4	4.4	25.5	69.8	92	1488
06009	.0	.0	.3	3.9	22.6	73.2	93	1472
12015	.0	.0	.4	7.2	30.2	62.2	91	1459
18021	.0	.0	.9	7.7	30.7	60.7	91	1480
TOT	0	0	29	341	1600	3909	92	5879

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

JULY

AREA 0002 DSV BRAVO
56.9N 51.0W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	43 48	49 52	53 56	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	2	.0	.0
9/10	.0	.0	.0	.2	.1	12	.0	.2
7/8	.0	.0	.1	.6	.1	47	.0	.8
6	.0	.0	.4	.7	.1	73	.1	1.1
5	.0	.0	.8	1.2	.1	128	.2	1.9
4	.0	.1	2.2	2.1	.1	263	.6	3.8
3	.0	.2	4.8	3.5	.1	503	1.9	6.6
2	.0	1.1	10.1	3.7	.0	883	3.3	11.4
1	.0	3.2	15.7	2.4	.0	1257	4.6	16.7
0	.0	5.0	13.3	1.0	.0	1144	4.6	14.7
-1	.1	5.8	7.9	.4	.0	837	2.6	11.6
-2	.2	4.0	3.1	.2	.0	438	1.4	6.0
-3	.3	2.3	1.0	.1	.0	217	.7	3.0
-4	.2	.9	.2	.0	.0	79	.3	1.1
-5	.1	.3	.0	.0	.0	22	.1	.3
-6	.0	.0	.0	.0	.0	4	.0	.1
-7/-8	.0	.1	.0	.0	.0	4	.0	.1
TOTAL	56	3524	940	38	5913	1221	4692	
PCT	.9	22.9	59.6	15.9	.6	100.0	20.6	79.4

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.3	.0	.0	.0	.0	.8	.1	.6	.0	.0	.0	.0	.7
1-2	.1	.9	.2	.0	.0	.0	1.3	.1	.3	.2	.0	.0	.0	.8
3-4	.0	1.0	1.3	.0	.0	.0	2.2	.0	.3	.9	.0	.0	.0	1.2
5-6	.0	.1	1.2	.0	.0	.0	1.3	.0	.0	.7	.1	.0	.0	.8
7	.0	.1	.6	.2	.0	.0	.9	.0	.1	.5	.1	.0	.0	.6
8-9	.0	.0	.2	.3	.0	.0	.5	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.3	.1	.0	.4	.0	.0	.2	.2	.0	.0	.3
12	.0	.0	.0	.2	.1	.0	.4	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TNT PCT	.4	2.6	3.6	1.1	.2	.0	7.8	.2	1.3	2.7	.3	.0	.0	4.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.8	.0	.0	.0	.0	1.1	.1	.9	.0	.0	.0	.0	1.0
1-2	.0	1.1	.5	.0	.0	.0	1.6	.0	1.3	.8	.0	.0	.0	2.1
3-4	.0	1.0	1.4	.0	.0	.0	2.4	.0	1.4	2.6	.0	.0	.0	4.1
5-6	.0	.2	1.2	.0	.0	.0	1.4	.0	.3	2.0	.3	.0	.0	2.3
7	.0	.1	.9	.2	.0	.0	1.2	.0	.1	2.1	.5	.0	.0	2.6
8-9	.0	.0	.2	.4	.1	.0	.7	.0	.0	.6	.5	.0	.0	1.2
10-11	.0	.0	.2	.3	.0	.0	.5	.0	.0	.2	.5	.1	.0	.8
12	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TNT PCT	.3	3.2	4.4	1.2	.1	.0	9.3	.2	4.0	8.3	1.8	.2	.0	14.6

PERIOD: (OVER-ALL) 1963-1972

JULY

AREA 0002 OSV BRAVO
56.5N 51.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	1.2	.0	.0	.0	.0		1.5	.3	.8	.0	.0	.0	.0		1.1
1-2	.1	1.9	.8	.0	.0	.0		2.8	.1	1.3	.8	.0	.0	.0		2.2
3-4	.0	1.7	3.6	.2	.0	.0		5.4	.0	1.2	1.3	.1	.0	.0		2.7
5-6	.0	.2	2.9	.2	.0	.0		3.4	.0	.2	1.7	.2	.0	.0		2.1
7	.0	.2	3.0	.8	.0	.0		4.1	.0	.1	1.1	.2	.0	.0		1.5
8-9	.0	.1	1.8	1.0	.0	.0		2.9	.0	.1	1.0	.5	.0	.0		1.5
10-11	.0	.0	.6	.9	.0	.0		1.5	.0	.0	.5	.4	.0	.0		.9
12	.0	.0	.1	.3	.0	.0		.4	.0	.0	.1	.3	.1	.0		.4
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	5.3	12.8	3.4	.0	.0		21.9	.4	3.7	6.6	1.5	.1	.0		12.3

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	1.1	.0	.0	.0	.0		1.3	.3	1.1	.0	.0	.0	.0		1.4	
1-2	.0	1.3	.5	.0	.0	.0		1.9	.1	1.5	.6	.0	.0	.0		2.2	
3-4	.0	1.1	2.0	.1	.0	.0		3.3	.0	1.3	2.1	.0	.0	.0		3.4	
5-6	.0	.5	1.8	.1	.0	.0		2.4	.0	.3	2.1	.1	.0	.0		2.4	
7	.0	.1	.9	.3	.0	.0		1.4	.0	.2	1.6	.5	.0	.0		2.4	
8-9	.0	.0	.5	.3	.0	.0		.8	.0	.0	.6	.3	.0	.0		.9	
10-11	.0	.0	.1	.6	.0	.0		.8	.0	.0	.1	.5	.0	.0		.6	
12	.0	.0	.1	.3	.1	.0		.5	.0	.0	.0	.2	.0	.0		.2	
13-16	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.1	.1	.0		.3	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	4.2	6.0	1.8	.2	.0		12.6	.3	4.4	7.1	1.7	.2	.0		13.7	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	7.0	.0	.0	.0	.0	11.7	
1-2	.3	9.8	4.6	.0	.0	.0	14.9	
3-4	.3	8.9	15.2	.4	.0	.0	24.9	
5-6	.0	1.9	13.5	.9	.0	.0	16.3	
7	.0	1.0	10.7	2.8	.1	.0	14.7	
8-9	.0	.2	5.0	3.3	.1	.0	8.7	
10-11	.0	.1	2.0	3.5	.2	.0	5.7	
12	.0	.0	.3	1.5	.3	.0	2.2	
13-16	.0	.0	.0	.6	.2	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.6	29.0	51.4	13.1	.9	.0	100.0	2326

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.1	5.0	11.8	7.4	4.6	1.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1752
6-7	.0	1.4	6.4	9.8	10.4	6.2	4.0	1.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2326
8-9	.0	.2	1.3	1.9	3.6	2.7	2.0	1.7	1.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	856
10-11	.0	.1	.2	.2	.7	.4	.4	.7	1.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	240
12-13	.0	.0	.1	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
INDET	1.3	1.9	3.1	2.0	.8	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	344
TOTAL	.8	50.1	131.7	123.3	116.5	60.9	38.7	23.8	18.3	1.8	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	5754
PCT	1.4	6.7	22.9	21.4	20.2	10.6	6.7	4.1	3.2	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1954-1972
(COVER-ALL) 1945-1972

AUGUST

AREA 0002 OSV BRAVO
56.5N 91.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	10.9	3.5	4.0	.0	.0	.0	.0	18.4	4.3	.0	3.9	.4	.0	.0	73.0
NE	18.2	2.7	9.3	.0	.0	.0	.0	30.1	4.6	.0	9.6	.5	.1	.0	55.1
E	24.9	1.8	10.6	.0	.0	.0	.0	37.3	4.4	.0	12.4	.2	.1	.0	45.7
SE	22.3	1.4	6.9	.0	.0	.0	.0	30.6	3.9	.0	18.7	.5	.1	.0	46.2
S	14.1	.7	5.2	.0	.0	.0	.0	20.0	1.9	.0	21.6	.9	.4	.0	55.2
SW	6.7	1.7	4.7	.0	.0	.0	.0	13.1	2.8	.0	10.6	.4	.2	.0	72.9
W	4.3	2.5	5.1	.0	.0	.0	.0	11.8	4.0	.0	6.8	.8	.0	.0	76.3
NW	5.3	3.8	2.9	.0	.0	.0	.0	12.0	4.6	.0	3.5	.3	.0	.1	79.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.3	.0	6.0	.0	.0	.0	.0	16.2	.9	.0	21.4	.9	.0	.0	60.7
TOT PCT	13.0	2.1	5.9	.0	.0	.0	.0	21.0	3.6	.0	11.8	.5	.1	*	62.9
TOT OBS:	5600														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	14.3	2.6	6.3	.0	.0	.0	.0	23.1	3.1	.0	10.9	.3	.1	.0	62.3
0600Z	14.6	2.3	7.5	.0	.0	.0	.0	24.4	3.8	.0	10.5	.4	.1	.0	60.7
1201Z	11.9	1.9	5.1	.0	.0	.0	.0	18.9	4.4	.0	13.2	.7	.2	.1	62.3
1802Z	11.3	1.6	4.7	.0	.0	.0	.0	17.7	3.1	.0	12.7	.6	.1	.0	65.8
TOT PCT TOT OBS:	13.0 5601	2.1	5.9	.0	.0	.0	.0	21.0	3.6	.0	11.8	.5	.1	*	62.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.3	3.5	3.1	.9	.2	.0		8.0	13.1	7.3	7.2	8.4	9.6	8.1	7.8	8.0	7.8
NE	.3	2.5	3.0	1.6	.1	.0		7.5	14.7	8.6	7.1	7.4	8.1	7.7	6.9	6.5	7.6
E	.3	3.2	5.4	2.4	.4	.0		11.7	15.8	11.2	11.3	11.5	11.3	11.8	12.0	12.5	11.8
SE	.3	3.5	7.9	3.2	.3	.0		14.5	16.1	15.5	15.7	13.2	14.3	14.8	16.0	13.0	13.5
S	.5	3.4	8.8	3.3	.1	.0		16.1	15.7	15.2	16.0	16.8	15.7	16.5	15.3	17.6	15.7
SW	.4	3.7	6.7	2.0	.2	.0		12.4	14.7	13.4	12.0	12.7	12.6	11.3	12.6	11.8	13.0
W	.3	4.0	6.0	2.5	.4	*		13.1	15.3	12.5	12.6	14.0	12.3	12.7	12.5	14.2	14.2
NW	.3	4.3	6.5	2.8	.4	*		14.5	15.6	14.2	14.2	14.0	14.2	14.8	15.5	14.8	14.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0	2.1	3.8	1.8	1.9	2.3	1.3	1.6	2.0
TOT OBS	273	1589	2599	1048	116	4	5629		15.0	707	704	704	701	701	703	705	704
TOT PCT	4.8	28.2	44.7	18.6	2.1	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+	48+				00	03	06	09	12	18
N	1.9	3.9	1.7	.5	*			8.0	13.1	7.3	9.0	8.0	7.9		
NE	1.4	3.2	2.1	.7	.0			7.5	14.7	7.9	7.8	7.3	7.0		
E	1.5	5.3	3.7	1.2	*			11.7	15.8	11.2	11.4	11.9	12.1		
SE	1.7	6.2	5.2	1.3	*			14.5	16.1	15.6	13.8	15.4	13.3		
S	1.8	7.4	6.1	.8	.0			16.1	15.7	15.6	16.3	15.9	16.7		
SW	1.7	6.0	4.1	.6	.0			12.4	14.7	12.7	12.7	12.0	12.4		
W	1.8	5.9	4.2	1.1	.1			13.1	15.5	12.6	13.1	12.6	14.2		
NW	1.8	6.6	4.7	1.2	.1			14.5	15.6	14.2	14.1	15.1	14.6		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	2.1							2.1	.0	3.0	1.9	1.8	1.8		
TOT OBS	889	2506	1801	420	13	5629			15.0	1411	1405	1404	1409		
TOT PCT	15.8	44.5	32.0	7.5	.2			100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1954-1972
(OVER-ALL) 1945-1972

AUGUST

AREA 0002 DSV HRAVN
96.5N 51.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.0	2.4	27.9	47.1	17.1	2.1	.1	14.8	100.0	1411
06009	1.9	3.1	28.8	44.1	19.9	2.1	.1	19.0	100.0	1405
12015	1.8	2.3	28.8	45.6	19.9	1.5	.1	19.1	100.0	1404
18021	1.8	2.8	27.5	47.8	17.5	2.6	.0	19.1	100.0	1409
TOT	118	195	1589	2599	1048	116	.4	19.0		5629
PCT	2.1	2.8	28.2	46.2	18.6	2.1	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.3	2.4	4.7		6.9
NE	.4	.2	1.3	5.6		7.2
E	.1	.1	1.1	10.3		7.7
SE	.6	.3	2.2	11.3		7.3
S	1.9	.5	2.8	11.0		6.8
SW	2.3	.7	3.1	6.4		6.1
W	2.4	.9	3.2	6.6		6.0
NW	1.4	.8	5.2	7.2		6.5
VAR	.0	.0	.0	.0		.0
CALM	.2	.0	.5	1.4		6.9
TOT OBS	556	212	1228	3623	5619	6.8
TOT PCT	9.9	3.8	21.9	64.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

BY WIND DIRECTION										AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION									
WIND DIR	0-2	3-4	5-7	8-10	TOTAL	CLOUD	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL	
				OBS	OBS	COVER	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS	
N	.6	.3	2.4	4.7		6.9	.2	*	.2	1.1	2.9	1.6	.1	*	*	.1	1.7		
NE	.4	.2	1.3	3.6		7.2	.5	*	.6	1.4	2.2	1.0	.1	.2	*	.2	1.4		
E	.1	.1	1.1	10.3		7.7	1.6	.1	1.5	2.0	3.7	1.2	.2	*	*	.1	1.1		
SE	.6	.3	2.2	11.3		7.3	2.3	.1	1.6	1.9	3.2	1.7	.3	.2	.1	.4	2.8		
S	1.9	.5	2.8	11.0		6.8	2.6	.1	1.1	1.7	2.8	1.5	.3	.3	.3	.9	4.6		
SW	2.3	.7	3.1	6.4		6.1	.9	*	.6	.8	2.4	1.8	.2	.2	.2	.7	4.6		
W	2.4	.9	3.2	6.6		6.0	.7	*	.6	1.0	3.4	2.1	.1	.1	.2	.3	4.5		
NW	1.4	.8	5.2	7.2		6.5	.3	*	.5	1.1	5.4	3.4	.1	.1	.1	.1	3.4		
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.2	*	.5	1.4		6.9	.4	.0	.1	.2	.6	.2	*	*	*	.0	1	.5	
TOT OBS	556	212	1228	3623		5619	534	23	386	633	1485	813	80	64	53	156	1392	5619	
TOT PCT	9.9	3.8	21.9	64.5		100.0	9.5	.4	6.9	11.3	26.4	14.5	1.4	1.1	.9	2.8	24.8	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.6	3.5	3.6	3.6	3.7	3.7	3.7	3.7
>5000	3.1	4.6	4.7	4.8	4.8	4.8	4.9	4.9
>3500	3.7	6.0	6.1	6.2	6.3	6.3	6.3	6.3
>2000	12.1	20.3	20.5	20.7	20.7	20.7	20.8	20.8
>1000	24.4	44.7	46.5	47.0	47.1	47.1	47.2	47.2
>600	26.2	52.4	56.6	57.7	58.3	58.4	58.4	58.4
>300	26.6	55.4	61.9	64.1	65.1	65.2	65.3	65.3
>150	26.6	55.5	62.1	64.3	65.4	65.6	65.7	65.7
>0	26.6	55.5	62.2	64.7	67.4	70.4	74.5	75.2
TOTAL	1494	3120	3494	3658	3789	3955	4186	4228

TOTAL NUMBER OF OBS: 5621

PCT FREQ NH <5/8: 24.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
7.6	9.9	6.0	3.4	1.9	4.4	8.8	8.8	44.1	9.4	5623

PERIOD: (PRIMARY) 1954-1972
(OVER-ALL) 1945-1972

AUGUST

AREA 0002 OSV NRAYD
96.9N 51.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	0	.1	.5	.4	.4	0	.1	0	.0	.1	1.8	
	NO PCP	.1	.2	.7	1.6	1.9	.7	.5	.2	.0	.3	6.2	
	TOT %	.2	.3	1.2	2.0	2.4	.8	.6	.3	.0	.4	8.0	
1/2<1	PCP	0	.1	.5	.3	.1	0	0	.1	.0	.0	1.2	
	NO PCP	0	.2	.3	.3	.4	.1	.2	0	.0	0	1.6	
	TOT %	.1	.3	.8	.6	.5	.2	.2	.1	.0	0	2.8	
1<2	PCP	.1	.1	.4	.4	.3	.7	.1	.1	.0	.0	1.6	
	NO PCP	.1	.1	.2	.2	.3	.1	.1	.1	.0	0	1.1	
	TOT %	.2	.2	.5	.7	.6	.2	.1	.2	.0	0	2.8	
2<5	PCP	.4	.5	1.1	.9	.6	.4	.3	.4	.0	0	4.5	
	NO PCP	.1	.2	.3	.4	.7	.5	.1	.2	.0	0	2.3	
	TOT %	.4	.7	1.3	1.3	1.3	.7	.4	.5	.0	.1	6.8	
5<10	PCP	.8	1.3	1.7	2.3	1.6	.9	.9	.9	.0	.2	10.6	
	NO PCP	2.3	2.2	2.8	2.8	3.5	3.0	3.5	3.6	.0	.3	24.1	
	TOT %	3.0	3.5	4.5	5.1	5.2	3.9	4.5	4.5	.0	.6	34.8	
10+	PCP	.2	.1	.2	.2	.1	.1	.1	.3	.0	.0	1.2	
	NO PCP	4.0	2.4	3.1	4.7	6.1	6.8	7.2	8.6	.0	1.0	43.6	
	TOT %	4.2	2.5	3.3	4.9	6.2	6.6	7.3	8.9	.0	1.0	44.9	
TOT OBS		5600											
TOT PCT		8.0	7.5	11.7	14.5	16.2	12.4	13.1	14.5	.0	2.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	0	.1	.1	0	0	0	.0	.4	.6	
	4-10	.1	.1	.4	.5	.4	.3	.4	.1	.0	0	2.3	
	11-21	0	.2	.6	1.1	1.5	.4	.2	.1	.0	0	4.1	
	22+	0	0	.2	.3	.3	0	.0	0	.0	0	.9	
	TOT %	.2	.3	1.2	1.9	2.3	.8	.6	.2	.0	.4	8.0	
1/2<1	0-3	.0	.0	.0	0	0	.0	0	0	.0	0	.1	
	4-10	0	.1	.3	.2	.1	.1	.1	0	.0	0	.9	
	11-21	0	.1	.4	.2	.3	.1	.1	0	.0	0	1.2	
	22+	0	.1	.2	.2	.1	0	0	.1	.0	0	.6	
	TOT %	.1	.3	.8	.6	.5	.2	.2	.1	.0	0	2.8	
1<2	0-3	.0	.0	0	.0	.0	.0	.0	0	.0	0	.1	
	4-10	.1	.1	.1	.1	.1	.1	0	0	.0	0	.6	
	11-21	.1	.1	.2	.4	.3	.1	.0	.1	.0	0	1.2	
	22+	0	0	.2	.2	.2	0	.1	.1	.0	0	.9	
	TOT %	.2	.2	.5	.7	.6	.2	.1	.2	.0	0	2.7	
2<5	0-3	.0	0	.0	.0	0	0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.2	.1	.1	.2	.1	.1	.0	0	1.1	
	11-21	.2	.3	.6	.6	.6	.3	.2	.2	.0	0	3.0	
	22+	.2	.3	.6	.6	.5	.1	.1	.2	.0	0	2.6	
	TOT %	.4	.7	1.3	1.3	1.3	.7	.4	.5	.0	.1	6.8	
5<10	0-3	.1	.2	.1	.1	.2	.2	.2	.1	.0	.6	1.6	
	4-10	1.4	1.1	1.0	1.0	.9	1.0	.9	1.2	.0	0	8.5	
	11-21	1.0	1.5	2.2	2.6	2.9	1.8	2.0	1.9	.0	0	16.0	
	22+	.5	.8	1.3	1.4	1.1	.9	1.3	1.4	.0	0	8.6	
	TOT %	3.0	3.5	4.5	5.1	5.1	3.9	4.4	4.5	.0	.6	34.7	
10+	0-3	.2	.1	.2	.1	.2	.2	.1	.2	.0	1.0	2.4	
	4-10	1.9	1.0	1.3	1.6	1.8	2.1	2.4	2.9	.0	0	14.8	
	11-21	1.7	.9	1.5	2.4	3.1	3.4	3.5	4.3	.0	0	20.8	
	22+	.4	.5	.3	.8	1.1	1.0	1.3	1.6	.0	0	7.0	
	TOT %	4.2	2.5	3.3	4.9	6.2	6.7	7.3	8.9	.0	1.0	45.1	
TOT OBS		5625											
TOT PCT		8.0	7.5	11.7	14.5	16.1	12.4	13.1	14.5	.0	2.1	100.0	

AUGUST

PERIOD: (PRIMARY) 1954-1972
(OVER-ALL) 1949-1972

TABLE 10

AREA 0002 OSV RRAVO
56.3M 51.0M

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	9.3	.4	6.5	11.1	26.4	14.5	1.1	1.2	1.1	2.9	74.4	25.6	1409
06009	9.9	.1	6.1	10.5	26.0	16.4	1.8	1.2	.9	2.9	75.7	24.3	1402
12015	9.2	.6	7.3	12.1	28.4	12.0	1.4	1.0	.9	2.4	75.3	24.7	1403
18021	9.6	.6	7.7	11.4	24.8	15.0	1.3	1.1	1.0	3.0	75.5	24.5	1409
TOT	594	23	387	633	1485	813	80	64	53	136	4230	1393	5623
PCT	9.5	.4	6.9	11.3	26.4	14.5	1.4	1.1	.9	2.8	75.2	24.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	8.6	1.9	2.7	6.7	36.7	43.4	1409
06009	8.1	3.1	1.9	7.3	37.1	42.4	1404
12015	7.5	3.3	2.8	6.9	34.0	45.5	1405
18021	7.7	2.6	3.5	6.2	30.9	49.1	1411
TOT	449	155	154	382	1951	2538	5629
PCT	8.0	2.8	2.7	6.8	34.7	45.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <3/8 AND 5+	TOTAL OBS
(GMT)						
00003	9.2	16.9	29.7	45.1	25.2	1409
06009	9.9	17.2	30.2	45.9	23.9	1402
12015	9.2	18.1	32.2	45.7	24.1	1403
18021	9.6	18.6	31.9	44.0	24.1	1408
TOT	533	995	1743	2510	1368	5621
PCT	9.5	17.7	31.0	44.7	24.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	.0	.1	.0	8	.1
50/54	.0	.0	.0	.4	1.8	12.3	13.3		1565	27.8
45/49	.0	.0	.0	.9	8.6	21.1	37.6		3840	68.2
40/44	.0	.0	.0	.1	.7	1.4	1.7		214	3.8
35/39	.0	.0	.0	.0	.0	.0	.0		1	.0
TOTAL	0	0	0	3	83	623	1964	2955	5628	100.0
PCT	.0	.0	.0	.1	1.5	11.1	34.9	52.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	1.3	3.4	5.7	6.6	4.5	3.0	1.7	.0	.6
6.4	5.9	8.1	8.6	9.2	7.4	9.4	11.9	.0	1.4
.6	.3	.2	.2	.3	.5	.7	1.0	.0	.1
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	7.5	11.7	14.5	16.1	12.4	13.1	14.5	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	55	53	51	48	45	43	38	48.0	1411
06009	54	52	51	48	44	42	41	47.8	1405
12015	58	53	52	49	45	43	40	48.5	1404
18021	56	53	52	49	45	44	43	48.8	1412
TOT	58	53	52	48	45	43	38	48.3	5632

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	.0	1.9	10.7	31.7	55.7	90	1411
06009	.0	.1	1.3	9.8	30.8	57.9	90	1405
12015	.0	.0	1.3	11.2	38.5	49.1	89	1404
18021	.0	.1	1.4	12.6	38.6	47.3	88	1412
TOT	0	3	83	624	1965	2957	89	5632

AUGUST

PERIOD: (PRIMARY) 1954-1972
(OVER-ALL) 1949-1972AREA 0002 DSV ARAYD
56.5N 91.0W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	46 52	53 56	57 60	TOT FOG	N FOG	WD FOG
9/10	.0	.0	.0	.2	.1	.0	14	.0	.3
7/8	.0	.0	.0	.3	.1	.0	22	.0	.4
6	.0	.0	.0	.4	.1	.0	32	.1	.5
5	.0	.0	.1	1.0	.2	.0	71	.1	1.1
4	.0	.0	.3	1.4	.3	.0	110	.4	1.6
3	.0	.0	.6	3.5	.6	.0	280	.8	3.9
2	.0	.0	2.0	8.5	.2	.0	598	1.5	9.2
1	.0	.1	8.0	12.2	.3	.0	1040	3.3	15.3
0	.0	.2	10.9	9.9	.1	.0	1158	2.3	18.4
-1	.0	.3	13.1	4.9	.0	.0	1024	1.9	16.4
-2	.0	.6	9.4	1.7	.0	.0	681	.7	11.2
-3	.0	.9	5.3	.5	.0	.0	370	.5	6.1
-4	.0	1.1	1.6	.2	.0	.0	165	.2	2.7
-5	.0	.5	.0	.0	.0	.0	80	.1	1.0
-6	.0	.1	.1	.0	.0	.0	9	.0	.2
TOTAL	3		2794		111		5594	681	4939
PCT	.1	210	49.9	44.2	2.0	1	100.0	11.8	88.2

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.6	.0	.0	.0	.0	.8	.0	.5	.0	.0	.0	.0	.6
1-2	.0	1.3	.1	.0	.0	.0	1.4	.1	1.0	.2	.0	.0	.0	1.3
3-4	.0	.7	.7	.1	.0	.0	1.5	.0	.7	1.3	.1	.0	.0	2.1
5-6	.0	.6	.8	.1	.0	.0	1.6	.0	.1	.7	.1	.0	.0	.9
7	.0	.1	.7	.3	.0	.0	1.1	.0	.1	.5	.3	.0	.0	.8
8-9	.0	.1	.3	.3	.0	.0	.7	.0	.0	.3	.4	.0	.0	.7
10-11	.0	.0	.2	.2	.0	.0	.5	.0	.0	.2	.6	.0	.0	.7
12	.0	.0	.0	.2	.0	.0	.3	.0	.0	.1	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.5	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.4	3.0	1.3	.1	.0	8.1	.1	2.4	3.2	2.1	.1	.0	7.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.3	.0	.0	.0	.0	.4	.2	.6	.0	.0	.0	.0	.8
1-2	.1	1.3	.5	.0	.0	.0	1.9	.0	1.2	.5	.0	.0	.0	1.7
3-4	.0	1.1	.9	.0	.0	.0	2.0	.0	.7	1.5	.1	.0	.0	2.3
5-6	.0	.3	1.3	.2	.0	.0	1.8	.0	.3	2.5	.4	.0	.0	3.2
7	.0	.3	1.7	.6	.0	.0	2.6	.0	.2	1.6	.7	.0	.0	2.5
8-9	.0	.0	.9	.5	.0	.0	1.5	.0	.0	1.0	.5	.0	.0	1.5
10-11	.0	.0	.4	.4	.1	.0	.9	.0	.0	.1	.6	.0	.0	.8
12	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.6	.1	.0	.8
13-16	.0	.0	.0	.3	.0	.0	.4	.0	.0	.1	.3	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.2	5.8	2.4	.1	.0	11.8	.2	3.1	7.4	3.2	.2	.0	14.1

PERIOD: (OVER-ALL) 1963-1972

AUGUST

AREA 0002 DSV BRAVU
56.3N 51.0W

TABLE 18 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.6	.8	.0	.0	.0		.8	.1	.4	.0	.0	.0	.0		.6
1-2	.0	1.1	.4	.0	.0	.0		1.5	.1	1.2	.2	.0	.0	.0		1.4
3-4	.0	1.2	2.0	.0	.0	.0		3.3	.0	1.1	1.5	.0	.0	.0		2.7
5-6	.0	.2	2.5	.2	.0	.0		2.9	.0	.3	1.8	.2	.0	.0		2.3
7	.0	.1	3.0	.8	.0	.0		3.9	.0	.1	1.4	.4	.0	.0		1.9
8-9	.0	.0	.5	1.1	.0	.0		1.7	.0	.0	.8	.5	.0	.0		1.4
10-11	.0	.0	.2	.9	.0	.0		1.2	.0	.0	.3	.5	.0	.0		.8
12	.0	.0	.2	.3	.0	.0		.6	.0	.0	.1	.1	.0	.0		.3
13-16	.0	.0	.2	.1	.0	.0		.3	.0	.0	.0	.1	.0	.0		.2
17-19	.0	.0	.0	.0	.0	.0		.1	.0	.0	.0	.0	.1	.0		.1
20-22	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	3.2	9.1	3.5	.2	.0		16.3	.2	3.2	6.1	1.9	.2	.0		11.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.3	.0	.0	.0	.0		.3	.1	.5	.0	.0	.0	.0		.7	
1-2	.0	1.0	.2	.0	.0	.0		1.2	.1	1.7	.4	.0	.0	.0		2.2	
3-4	.0	1.3	1.8	.0	.0	.0		3.1	.0	1.5	2.0	.1	.0	.0		3.5	
5-6	.0	.5	1.5	.2	.0	.0		2.1	.0	.6	2.4	.2	.0	.0		3.3	
7	.0	.3	1.3	.6	.0	.0		2.1	.0	.1	1.8	.7	.0	.0		2.7	
8-9	.0	.1	.6	.3	.0	.0		.9	.0	.1	.9	.6	.0	.0		1.7	
10-11	.0	.0	.4	.2	.0	.0		.5	.0	.0	.6	.5	.0	.0		1.1	
12	.0	.0	.0	.2	.0	.0		.3	.0	.0	.1	.8	.0	.0		.9	
13-16	.0	.0	.0	.2	.1	.0		.3	.0	.0	.0	.1	.1	.0		.2	
17-19	.0	.0	.0	.1	.1	.0		.2	.0	.0	.0	.3	.0	.0		.3	
20-22	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.1	.0		.1	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.1		.1	.0	.0	.0	.0	.0	.1		.1	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.1	3.4	9.8	1.8	.3	.1		11.5	.3	4.7	8.1	3.2	.2	.1		16.3	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.7	3.7	.0	.0	.0	.0	6.5	
1-2	.5	9.8	2.5	.0	.0	.0	12.8	
3-4	.3	8.3	11.7	.4	.0	.0	20.8	
5-6	.0	3.0	13.5	1.5	.0	.0	18.0	
7	.1	1.4	11.9	4.2	.0	.0	17.6	
8-9	.0	.4	5.4	4.3	.0	.0	10.0	
10-11	.0	.0	2.4	3.8	.1	.0	6.4	
12	.0	.0	.7	2.6	.3	.0	3.6	
13-16	.0	.0	.4	1.9	.4	.0	2.7	
17-19	.0	.0	.0	.5	.5	.0	1.0	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.1	.1	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.7	26.7	48.6	19.4	1.5	.1	100.0	2222

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	3.3	10.5	8.1	9.3	1.8	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1675	5
6-7	.0	.9	9.7	7.1	12.1	6.8	3.4	2.7	2.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2325	7
8-9	.0	.3	.8	1.4	2.9	3.4	4.3	2.7	2.4	.7	.1	.0	.1	.0	.0	.0	.0	.0	.0	1070	9
10-11	.0	.0	.1	.2	.3	.3	.5	.7	.8	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	163	11
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	13
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	18
INDRY	.7	.8	2.2	.9	.9	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	346	4
TOTAL	54	298	1081	988	1197	683	624	358	230	96	12	1	9	0	0	0	0	0	0	5593	7
PCT	1.0	5.3	19.3	17.7	21.4	12.2	11.2	6.4	4.1	1.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

SEPTEMBER

AREA 0002 OSV BRAVO
36.5N 51.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 00 TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	12.2	6.8	3.5	.0	.6	.0	.0	22.6	5.6	.0	3.1	.1	.0	.3	68.3
NE	27.5	3.2	5.0	.0	.0	.0	.0	15.8	3.7	.0	2.7	.0	.0	.1	57.7
E	38.1	3.4	5.5	.0	.0	.0	.0	47.0	4.7	.0	7.0	.3	.0	.0	41.0
SE	29.4	2.3	5.9	.0	.0	.0	.0	37.7	2.3	.0	7.1	.1	.0	.0	52.8
S	17.0	2.0	4.5	.0	.2	.0	.1	23.7	2.7	.0	10.0	.1	.0	.0	63.4
SW	8.5	3.3	2.3	.0	.2	.0	.2	14.5	5.1	.0	4.4	.3	*	.1	75.5
W	3.9	6.1	1.9	.0	.8	*	.6	13.1	8.3	.0	2.3	.2	.1	.2	75.9
NW	4.0	8.3	1.5	.0	.8	*	.7	15.1	7.7	.0	2.0	.3	.0	*	74.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8	.0	3.2	.0	.0	.0	.0	8.1	1.6	.0	8.1	.0	.0	.0	82.3
TOT PCT	12.5	5.0	3.1	.0	.4	*	.3	21.3	5.7	.0	4.4	.2	*	.1	68.3
TOT OBS:	5573														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 00 TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00Z03	13.3	4.6	4.2	.0	.4	.0	.3	22.8	5.7	.0	4.3	.2	.0	.1	67.0
06Z09	13.6	5.0	3.4	.0	.3	.1	.1	22.1	6.2	.0	4.6	.1	.0	.3	66.7
12Z15	11.6	5.3	2.1	.0	.7	.0	.4	19.8	5.8	.0	4.5	.3	.0	.1	69.6
18Z21	11.6	5.3	2.7	.0	.4	.0	.5	20.5	4.9	.0	4.1	.1	.1	.0	70.2
TOT PCT	12.5	5.0	3.1	.0	.4	*	.3	21.3	5.7	.0	4.4	.2	*	.1	68.4
TOT OBS:	5575														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.2	2.1	4.8	3.1	.8	*		11.0	18.8	9.4	10.2	11.2	11.2	12.4	12.2	10.9	10.4	
NE	.2	1.2	2.5	1.6	.5	.1		6.1	18.7	6.6	5.4	5.1	5.8	7.0	5.6	5.7	7.5	
E	.1	1.3	1.8	1.6	.5	*		5.3	19.1	6.0	6.1	5.8	5.9	4.0	4.4	4.6	5.5	
SE	.2	1.5	3.4	2.3	.6	*		8.0	18.4	9.1	8.0	7.6	7.3	7.8	8.7	7.9	7.9	
S	.2	2.4	7.1	3.5	.3	*		13.5	17.3	12.9	13.7	13.9	14.3	13.7	13.1	13.3	13.2	
SW	.2	3.2	6.1	3.3	.5	.2		13.5	17.5	13.0	15.1	13.7	13.1	13.4	14.1	13.7	12.5	
W	.3	3.2	8.5	6.0	1.1	.2		19.3	19.3	19.0	17.5	19.6	18.0	19.8	20.0	20.2	20.2	
NW	.2	3.0	8.6	8.2	2.0	.2		22.2	21.2	23.0	22.7	22.0	23.1	21.2	20.6	22.8	22.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.1							1.1	.0	1.0	1.3	1.3	1.4	.9	1.4	1.0	.6	
TOT OBS	148	1005	2405	1670	353	37	5618		18.8	705	707	705	699	694	700	703	705	
TOT PCT	2.6	17.9	42.8	29.7	6.3	.7		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	.9	4.2	3.8	1.9	.1		11.0	18.8	9.8	11.2	12.3	10.6	
NE	.7	2.1	1.9	1.1	.1		6.1	18.7	6.0	5.4	6.3	6.6	
E	.7	1.7	1.6	1.1	.2		5.3	19.1	6.0	5.8	4.2	5.1	
SE	.8	3.0	2.9	1.3	.1		8.0	18.4	8.6	7.4	8.2	7.9	
S	1.0	5.4	5.6	1.5	*		13.5	17.3	13.3	14.1	13.4	13.3	
SW	1.3	5.7	4.8	1.5	.2		13.5	17.5	14.0	13.3	13.7	13.1	
W	1.3	6.5	8.2	2.8	.5		19.3	19.3	18.3	18.8	19.9	20.2	
NW	1.0	6.7	9.0	5.0	.5		22.2	21.2	22.9	22.6	20.9	22.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.1						1.1	.0	1.1	1.4	1.1	.8	
TOT OBS	503	1985	2121	910	99	5618		18.8	1412	1406	1394	1408	
TOT PCT	9.0	35.3	37.8	16.2	1.8		100.0		100.0	100.0	100.0	100.0	

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PERIOD: (PRIMARY) 1953-1972
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AREA 0002 OSV BRAVN
56.5N 51.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	1.1	1.7	19.1	41.1	30.0	6.6	.5	18.6	100.0	1412
0600Z	1.4	1.3	17.9	44.4	29.0	5.1	.9	18.6	100.0	1404
1201Z	1.1	1.7	17.1	43.0	29.8	6.3	.9	19.0	100.0	1394
1802Z	.8	1.4	17.4	42.8	30.1	7.1	.4	19.2	100.0	1408
TOT	62	86	1005	2405	1670	353	37	18.8		5618
PCT	1.1	1.5	17.9	42.8	29.7	6.3	.7	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.7	3.8	5.9		6.8
NE	.1	.1	1.3	4.5		7.4
E	.1	.1	.7	4.4		7.6
SE	.2	.2	1.6	6.0		7.4
S	.9	.4	3.0	9.2		7.0
SW	2.1	1.1	4.1	6.3		6.1
W	2.3	2.0	8.1	6.8		6.0
NW	1.7	2.0	9.8	8.7		6.3
VAR	.0	.0	.0	.0		.0
CALM	.2	*	.4	.5		6.1
TOT OBS	453	370	1837	2955	5615	6.6
TOT PCT	8.1	6.6	32.7	52.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.1	.0	.1	.9	4.3	7.6	.2	.1	.1	*	2.5	
NE	.1	.0	.4	.8	2.6	.9	.1	*	.0	*	1.1	
E	.3	.0	.4	.7	1.8	1.1	.1	*	.0	.1	.7	
SE	.6	*	.4	.9	2.3	1.4	.2	.1	.1	.1	1.9	
S	1.3	.1	.6	.9	2.8	2.6	.3	.2	.4	.8	3.7	
SW	.4	.0	.2	.7	3.2	2.2	.1	.2	.2	.6	5.8	
W	.2	*	.2	.8	5.1	5.4	.6	.1	.1	.2	6.7	
NW	.2	*	.2	.9	7.7	6.6	.5	*	*	.1	5.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	*	.3	.2	*	*	*	*	.4	
TOT OBS	185	6	141	376	1693	1298	117	35	52	113	1599	5615
TOT PCT	3.3	.1	2.5	6.7	30.2	23.1	2.1	.6	.9	2.0	28.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9
= OR >5000	2.2	3.5	3.5	3.6	3.6	3.6	3.6	3.6
= OR >3500	3.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
= OR >2000	16.0	28.5	28.7	28.7	28.7	28.7	28.7	28.7
= OR >1000	28.1	56.8	58.6	58.8	58.9	58.9	58.9	58.9
= OR >600	28.8	60.8	64.5	65.2	65.6	65.6	65.6	65.6
= OR >300	28.8	61.9	66.4	67.4	68.0	68.1	68.1	68.1
= OR >150	28.9	61.9	66.5	67.4	68.1	68.2	68.2	68.2
= OR >0	28.9	61.9	66.6	67.7	69.0	70.1	71.4	71.5
TOTAL	1621	3475	3737	3798	3874	3933	4007	4015

TOTAL NUMBER OF OBS: 5614

PCT FREQ NH <5/8: 28.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	4.5	4.2	8.8	6.7	4.3	7.7	14.5	10.4	35.6	3.3	5620

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56.5N 51.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.1	.1	.2	.2	.1	*	.0	.0	.0	.7	
	NO PCP	.1	*	.2	.3	.8	.3	.1	.1	.0	.1	2.0	
	TOT %	.1	.1	.3	.5	1.0	.4	.2	.1	.0	.1	2.7	
1/2<1	PCP	*	.1	*	.2	.2	*	*	*	.0	.0	.6	
	NO PCP	.1	*	.1	.1	.3	.1	.1	.1	.0	.0	.8	
	TOT %	.1	.1	.1	.3	.4	.1	.2	.1	.0	.0	1.4	
1<2	PCP	.1	.1	.2	.2	.2	*	*	*	.0	.0	.8	
	NO PCP	.1	*	*	.1	.1	*	*	*	.0	.0	.4	
	TOT %	.2	.1	.2	.3	.3	.1	.1	*	.0	.0	1.2	
2<5	PCP	.4	.5	.6	.8	.6	.3	.3	.4	.0	.0	3.7	
	NO PCP	.1	.1	.1	.1	.2	.2	.2	.2	.0	*	1.2	
	TOT %	.5	.6	.7	.9	.8	.5	.4	.6	.0	*	4.9	
5<10	PCP	1.6	1.3	1.4	1.4	1.7	1.3	1.6	2.3	.0	*	12.7	
	NO PCP	3.2	1.7	1.3	1.6	3.4	4.0	5.5	6.6	.0	.3	27.6	
	TOT %	4.8	3.0	2.6	3.1	5.2	5.3	7.1	8.9	.0	.3	40.2	
10+	PCP	.4	.2	.2	.2	.3	.3	.5	.7	.0	.1	2.8	
	NO PCP	4.9	2.1	1.2	2.8	5.6	7.0	10.8	11.7	.0	.7	46.7	
	TOT %	5.3	2.2	1.4	3.0	5.9	7.2	11.3	12.4	.0	.7	49.6	
TOT OBS													5578
TOT PCT													
11.0 6.1 5.3 8.0 13.6 13.4 19.3 22.2 .0 1.1 100.0													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	*	.0	*	*	*	.0	.1	.2	
	4-10	.1	*	.1	.2	.3	.1	.1	.1	.0		1.0	
	11-21	.0	*	.1	.2	.5	.2	*	*	.0		1.1	
	22+	.0	*	.1	.1	.2	*	.0	*	.0		.4	
	TOT %	.1	.1	.3	.5	1.0	.4	.2	.1	.0	.1	2.7	
1/2<1	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	*	*	*	*	*	*	*	*	.0		.3	
	11-21	*	*	*	.1	.2	.1	.1	*	.0		.6	
	22+	*	*	.1	.2	.2	.0	*	*	.0		.6	
	TOT %	.1	.1	.1	.3	.4	.1	.2	.1	.0	.0	1.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	*	*	*	*	*	*	.0		.1	
	11-21	.1	*	*	.1	.2	.1	.1	*	.0		.5	
	22+	.1	*	.1	.2	.1	*	.0	.0	.0		.5	
	TOT %	.2	.1	.2	.3	.3	.1	.1	*	.0	.0	1.2	
2<5	0-3	*	.0	.0	*	*	*	*	*	.0	*	.1	
	4-10	.1	*	*	*	.1	*	.1	.1	.0		.4	
	11-21	.1	.2	.1	.3	.4	.1	.1	.2	.0		1.5	
	22+	.3	.4	.5	.5	.3	.2	.2	.4	.0		2.8	
	TOT %	.5	.6	.7	.9	.8	.3	.4	.6	.0	*	4.9	
5<10	0-3	*	.1	*	*	*	*	*	*	.0	.3	.7	
	4-10	.7	.4	.4	.4	.6	1.1	.9	.9	.0		5.5	
	11-21	2.0	1.1	1.0	1.3	2.7	2.1	2.8	2.8	.0		15.7	
	22+	2.0	1.3	1.1	1.3	1.8	2.1	3.4	5.1	.0		18.2	
	TOT %	4.8	3.0	2.6	3.0	5.2	5.3	7.1	8.9	.0	.3	40.1	
10+	0-3	.1	.1	.1	.1	.1	.1	.2	.1	.0	.7	1.7	
	4-10	1.1	.7	.7	.9	1.4	1.9	2.0	1.8	.0		10.5	
	11-21	2.6	1.1	.5	1.5	3.2	3.5	5.4	5.6	.0		23.4	
	22+	1.5	.3	.2	.6	1.2	1.7	3.7	4.9	.0		14.2	
	TOT %	5.3	2.3	1.4	3.1	5.9	7.3	11.3	12.5	.0	.7	49.7	
TOT OBS													5614
TOT PCT													
11.0 6.1 5.3 8.0 13.5 13.5 19.3 22.2 .0 1.1 100.0													

SEPTEMBER

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

AREA 0002 DSV BRAVO
56.5N 51.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	3.3	.2	1.8	6.0	28.4	21.5	2.0	.4	1.2	2.5	67.3	32.7	1411
06009	3.4	.0	2.4	6.5	30.9	24.0	2.2	.2	.8	2.1	72.5	27.5	1404
12015	2.7	.1	3.7	6.9	30.7	24.4	1.7	1.0	.8	1.8	73.8	26.2	1396
18021	3.8	.1	2.1	7.5	30.7	22.5	2.4	.9	.9	1.7	72.5	27.5	1407
TOT	185	6	141	376	1695	1298	117	35	52	113	4018	1600	5618
PCT	3.3	.1	2.3	6.7	30.2	23.1	2.1	.6	.9	2.0	71.5	28.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.0	1.1	.6	5.4	41.0	48.8	1410
06009	3.0	1.0	.6	5.3	42.7	47.3	1404
12015	1.6	1.9	1.9	4.6	38.6	51.4	1396
18021	3.0	1.7	1.6	4.1	38.1	51.5	1407
TOT	130	80	67	273	2253	2794	5617
PCT	2.7	1.4	1.2	4.9	40.1	49.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 3+	TOTAL OBS
00003	3.3	6.0	13.9	54.0	32.1	1409
06009	3.4	6.4	15.3	57.5	27.2	1403
12015	2.7	7.1	16.0	58.3	25.6	1396
18021	3.8	6.6	15.8	57.3	27.0	1406
TOT	186	366	857	3187	1570	5614
PCT	3.3	6.3	15.3	56.8	28.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	*	*	.0	3	.1
50/54	.0	.0	.0	*	.1	.7	3.9	3.1	445	7.9
45/49	.0	.0	.0	.4	3.3	12.9	18.9	21.8	3220	57.4
40/44	.0	.0	*	.9	6.1	12.4	7.7	4.7	1785	31.8
35/39	.0	.0	.0	.2	.5	.8	.9	.5	198	2.8
TOTAL	0	0	2	89	560	1509	1762	1689	5611	100.0
PCT	.0	.0	*	1.6	10.0	26.9	31.4	30.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	.0	*	*	.0	.0	.0	.0
50/54	.3	.3	1.0	1.3	2.1	1.7	.6	.2	.0	.1
45/49	5.2	3.7	3.3	5.7	9.9	8.9	9.9	10.1	.0	.7
40/44	5.1	1.8	.9	.9	1.4	2.7	7.9	10.7	.0	.2
35/39	.4	.1	.1	.1	.1	.2	.8	1.1	.0	.0
TOTAL	11.0	6.1	5.3	8.0	13.5	13.5	19.3	22.2	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	53	51	50	45	40	38	36	45.2	1412
06009	53	51	50	45	40	38	36	45.1	1405
12015	57	52	50	46	40	38	35	45.7	1396
18021	56	52	50	46	41	38	35	45.8	1408
TOT	57	52	50	46	40	38	35	45.4	5621

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.4	9.3	23.4	31.5	32.3	83	1411		
06009	.0	1.4	8.8	27.9	29.5	32.5	83	1402		
12015	.0	2.0	11.1	27.0	30.5	29.4	82	1394		
18021	.0	1.7	10.7	27.3	34.0	26.2	82	1407		
TOT	0	91	560	1510	1763	1690	83	5614		

SEPTEMBER

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

TABLE 17

AREA 0002 OSV BRAVO
96.5N 51.1W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	NO FOG
7/8	.0	.0	.0	*	*	*	*	4	.0	.1
6	.0	.0	*	.1	*	*	.0	6	.0	.1
5	.0	.0	.1	.2	.3	.1	.0	36	.1	.6
4	.0	.0	.3	.2	.8	.1	.0	77	.1	1.3
3	.0	.0	.2	.7	1.8	.1	.0	153	.2	2.6
2	.0	.0	.4	2.1	2.9	.1	.0	300	.4	5.0
1	.0	*	.5	5.6	3.6	*	.0	545	.7	9.1
0	.0	*	1.0	10.8	2.3	.0	.0	781	1.0	13.1
-1	.0	.0	2.2	10.8	1.3	*	.0	796	.6	13.7
-2	.0	.1	3.7	8.5	.8	.0	.0	729	.3	12.8
-3	.0	.4	6.1	6.7	.5	.0	.0	757	.2	13.4
-4	.0	.3	6.3	2.8	.0	.0	.0	524	.3	9.1
-5	.0	1.2	4.9	1.1	.0	.0	.0	398	.3	6.9
-6	.1	1.3	2.0	.8	.0	.0	.0	234	.2	4.5
-7/-8	*	1.5	1.0	.2	.0	.0	.0	149	.1	2.5
-9/-10	.1	.3	.4	.0	.0	.0	.0	44	.0	.8
-11/-13	*	.3	.3	.0	.0	.0	.0	31	.0	.6
-14/-16	.0	.1	.0	.0	.0	.0	.0	4	.0	.1
TOTAL	9		1627		794		1		243	5325
PCT	.2	299	2815	23				5568	4.4	95.6
		5.4	29.2	30.6	14.3	.4	*	100.0		

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.5	.0	.0	.0	.0	.6	.2	.2	.0	.0	.0	.0	.4
1-2	*	.8	.0	.0	.0	.0	1.2	*	.2	.2	.0	.0	.0	.4
3-4	.0	.5	1.3	.2	.0	.0	2.0	*	.2	.7	*	.0	.0	1.0
5-6	.0	.1	1.1	.3	.0	.0	1.5	.0	*	.4	*	.0	.0	
7	.0	.1	.8	.3	.0	.0	1.4	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.1	.5	.6	.0	.0	1.2	.0	.0	.1	.3	.0	.0	.4
10-11	.0	.0	.4	.8	.2	.0	1.2	.0	*	.1	.2	.1	.0	.4
12	.0	.0	.1	.3	.1	.0	.6	.0	.0	*	.2	.1	.0	.3
13-16	.0	.0	*	.6	.1	.0	.8	.0	.0	.1	.6	.1	.0	.8
17-19	.0	.0	.0	.2	.1	.0	.3	.0	.0	*	.2	.1	.0	.3
20-22	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.1	*	.0	.1
23-25	.0	.0	.0	*	*	.0	.1	.0	.0	.0	*	*	.0	.1
26-32	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.9	4.9	3.5	.8	.0	11.2	.3	.7	1.7	1.9	.4	.0	4.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	*	.4	.0	.0	.0	.0	.5	.1	.3	.0	.0	.0	.0	.4
1-2	.0	.2	.1	.0	.0	.0	.3	.0	.5	.2	.0	.0	.0	.7
3-4	.0	.2	.5	*	.0	.0	.6	.0	.2	1.2	.1	.0	.0	1.5
5-6	.0	.1	.2	.2	.0	.0	.4	*	*	1.2	.1	.0	.0	1.4
7	.0	*	.1	.2	.0	.0	.3	.0	.1	1.0	.6	*	.0	1.7
8-9	.0	.0	.1	.2	*	.0	.4	.0	*	.4	.4	.0	.0	.8
10-11	.0	.0	*	.3	.0	.0	.4	.0	.0	*	.5	.0	*	.5
12	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.1	.1	.0	.2
13-16	.0	.0	*	.7	.1	.0	.9	*	.0	*	.2	.3	.0	.6
17-19	.0	.0	.0	*	.2	.0	.2	.0	.0	.0	*	.1	.0	.1
20-22	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.9	1.0	1.7	.3	.0	4.0	.2	1.0	4.1	2.0	.7	*	8.0

PERIOD: (OVER-ALL) 1963-1972

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56.5N 51.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.3	.0	.0	.0	.0	.7	.1	.3	.0	.0	.0	.0	.4	
1-2	.0	.9	.5	.0	.0	.0	1.4	.0	.7	.5	.0	.0	.0	1.2	
3-4	.0	.8	2.2	.2	.0	.0	3.2	.1	1.1	1.3	.2	.0	.0	2.9	
5-6	.0	.2	2.5	.3	.0	.0	3.0	.0	.2	2.3	.2	.0	.0	2.8	
7	.0	.2	1.4	1.0	.0	.0	2.6	.0	.2	2.7	.9	.0	.0	3.8	
8-9	.0	.1	.7	.6	.0	.0	1.4	.0	.1	1.2	1.5	.0	.0	2.9	
10-11	.0	.0	.2	.9	.1	.0	1.2	.0	.1	.8	1.8	.0	.0	2.7	
12	.0	.0	.0	.4	.0	.0	.5	.0	.0	.6	1.6	.1	.0	2.3	
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.3	1.9	.4	.0	2.6	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.4	.0	1.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.6	7.6	3.5	.3	.0	14.2	.2	3.4	6.5	3.4	.5	.0	14.1	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.5	.0	.0	.0	.0	.7	.1	.3	.0	.0	.0	.0	.4	
1-2	.0	.8	.3	.0	.0	.0	1.1	.0	.7	.5	.0	.0	.0	1.2	
3-4	.0	.7	2.0	.1	.0	.0	2.9	.0	1.4	1.3	.2	.0	.0	2.9	
5-6	.0	.3	2.3	.3	.0	.0	2.9	.0	.2	2.3	.2	.0	.0	2.8	
7	.0	.4	2.1	.7	.0	.0	3.2	.0	.2	2.7	.9	.0	.0	3.8	
8-9	.0	.1	1.0	1.2	.1	.0	2.4	.0	.1	1.2	1.5	.0	.0	2.9	
10-11	.0	.1	.6	1.2	.0	.0	1.9	.0	.1	.8	1.8	.0	.0	2.7	
12	.0	.0	.3	.9	.1	.0	1.3	.0	.0	.6	1.6	.1	.0	2.3	
13-16	.0	.0	.3	.9	.1	.0	1.3	.0	.0	.3	1.9	.4	.0	2.6	
17-19	.0	.0	.0	.6	.2	.0	.9	.0	.0	.1	.6	.4	.0	1.1	
20-22	.0	.0	.0	.3	.1	.0	.4	.0	.0	.0	.2	.1	.0	.3	
23-25	.0	.0	.0	.1	.1	.1	.3	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.8	8.9	6.2	.7	.2	19.3	.1	3.0	9.7	9.1	1.2	.0	23.1	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.1	3.4	.0	.0	.0	.0	5.5	
1-2	.1	4.7	2.7	.0	.0	.0	7.5	
3-4	.2	5.2	11.2	.8	.0	.0	17.4	
5-6	.1	1.2	11.8	1.8	.0	.0	14.8	
7	.1	1.2	9.5	4.9	.0	.0	15.6	
8-9	.0	.4	4.7	5.5	.2	.0	10.8	
10-11	.0	.3	2.4	5.8	.5	.0	9.0	
12	.0	.1	1.2	4.0	.5	.0	5.8	
13-16	.0	.0	.7	5.7	1.4	.0	7.9	
17-19	.0	.0	.2	1.9	1.3	.0	3.5	
20-22	.0	.0	.0	.7	.5	.0	1.3	
23-25	.0	.0	.0	.2	.3	.1	.6	
26-32	.0	.0	.0	.0	.1	.1	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.7	16.4	44.4	31.2	5.0	.3	100.0	2322

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.1	1.7	7.1	4.3	3.4	1.0	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1038	5
6-7	.0	.3	3.6	7.0	10.6	6.0	3.9	2.0	1.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	1963	7
8-9	.0	.0	.3	1.4	5.2	4.5	5.6	4.1	5.6	2.5	1.0	.4	.2	.0	.0	.0	.0	.0	.0	1706	11
10-11	.0	.0	.0	.1	.8	1.1	.9	1.5	2.1	1.4	.9	.3	.3	.0	.0	.0	.0	.0	.0	520	14
12-13	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	39	17
>13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	12	18
INDET	.5	.8	1.1	.8	.8	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	269	5
TOTAL	35	156	672	763	1150	717	642	437	335	242	118	45	35	0	0	0	0	0	0	5547	9
PCT	.6	2.8	12.1	13.8	20.7	12.9	11.6	7.9	9.6	4.4	2.1	.8	.6	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1949-1972

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	17.3	4.9	1.8	.0	5.0	.2	1.0	29.1	8.8	.0	.9	.2	.0	.2	60.9
NE	26.5	2.8	4.7	.0	5.1	.6	.0	38.4	3.6	.3	3.6	.1	.0	.0	54.0
E	37.7	3.8	6.8	.3	3.5	.3	.0	50.8	5.8	.0	4.5	.2	.0	.0	38.7
SE	36.5	3.1	7.4	.0	1.4	.2	.0	48.4	4.1	.0	7.6	.0	.1	.0	39.8
S	18.6	3.1	4.6	.0	2.3	.0	.0	28.0	5.6	.0	4.4	.3	.3	.0	61.4
SW	10.8	4.6	.9	.0	3.6	.0	.7	19.8	5.9	.0	1.7	.0	.1	.0	72.5
W	5.9	4.8	.6	.0	10.6	.3	1.9	23.8	9.7	.0	.3	.1	*	.3	65.8
NW	5.7	6.0	.9	.0	10.7	.1	1.7	24.3	10.5	.0	.3	.0	.1	.1	64.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.0	.0	4.0	.0	.0	.0	.0	14.0	4.0	.0	4.0	.0	.0	.0	78.0
TOT PCT	14.3	4.5	2.4	*	6.7	.2	1.0	28.5	7.8	*	2.0	.1	.1	.1	61.4
TOT OBS:	5980														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	14.9	4.9	3.1	.0	6.7	.1	1.1	29.9	6.4	.0	1.5	.1	.0	.2	61.8
06009	15.7	4.6	2.4	.0	5.8	.1	.9	28.8	8.0	.1	1.1	.0	.0	.1	62.0
12015	13.6	3.6	2.1	.0	7.4	.4	1.3	27.9	8.7	.0	2.5	.1	.2	.1	60.6
18021	13.1	5.2	1.9	.1	7.0	.1	.7	27.6	8.2	.0	2.8	.1	.1	.1	61.1
TOT PCT	14.3	4.6	2.4	*	6.7	.2	1.0	28.5	7.8	*	2.0	.1	.1	.1	61.4
TOT OBS:	5981														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)							48+	TOTAL	PCT	MEAN	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47		OBS					FREQ	SPD	00	03	06	09	12	15	18	21
N	.1	1.4	4.4	3.4	1.6	.2		11.2	22.4		11.0	10.1	11.3	11.3	11.2	11.4	11.2	11.7
NE	.1	1.0	2.5	1.6	.4	*		5.8	18.9		4.7	6.0	6.2	6.2	6.4	5.9	5.6	5.4
E	.1	1.0	1.9	1.6	.7	.1		5.4	20.6		5.1	5.6	5.5	5.0	5.3	5.6	5.1	6.2
SE	.1	1.1	2.4	2.4	1.0	.1		7.2	21.7		8.2	7.8	6.4	7.7	7.3	7.6	6.6	6.1
S	.2	1.8	4.9	3.8	.7	*		11.3	19.3		10.2	10.4	10.5	10.5	12.3	12.2	12.6	11.5
SW	.2	2.1	5.5	3.7	.9	.1		12.4	19.3		11.4	12.3	13.0	14.0	12.5	12.6	11.9	11.5
W	.2	2.4	7.3	8.2	2.8	.2		21.2	22.6		22.5	21.3	22.3	19.7	18.3	20.5	22.7	21.8
NW	.1	2.2	7.7	10.2	4.2	.6		24.8	24.2		25.5	26.1	23.8	25.0	25.6	23.5	23.5	29.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0		1.5	.5	.9	.7	1.1	.7	.7	.7
TOT OBS	120	787	2207	2109	742	70	6035		21.6		756	754	755	750	750	753	758	759
TOT PCT	2.0	13.0	36.6	34.9	12.3	1.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	.6	3.2	4.3	2.3	.8		11.2	22.4	10.5	11.3	11.3	11.5
NE	.7	1.8	2.3	.8	.2		5.8	18.9	5.3	6.2	6.2	5.5
E	.5	1.6	1.9	1.2	.2		5.4	20.6	5.3	5.2	5.5	5.6
SE	.5	1.9	2.8	1.6	.4		7.2	21.7	8.0	7.0	7.4	6.3
S	.8	3.8	4.8	1.8	.1		11.3	19.3	10.3	10.5	12.2	12.0
SW	.8	4.4	4.8	2.2	.2		12.4	19.3	11.8	13.5	12.5	11.7
W	1.1	4.8	9.0	5.4	.9		21.2	22.6	21.9	21.0	19.4	22.2
NW	.7	5.1	9.9	7.7	1.3		24.8	24.2	25.8	24.4	24.6	24.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8		1.0	.8	.9	.7
TOT OBS	388	1605	2394	1397	251	6035		21.6	1510	1505	1503	1517
TOT PCT	6.4	26.6	39.7	23.1	4.2		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	1.0	1.0	14.0	36.0	34.0	12.7	1.3	21.7	100.0	1310
06009	.8	1.4	13.4	36.1	35.1	12.2	.9	21.4	100.0	1305
12015	.9	1.5	12.3	36.7	35.3	12.0	1.0	21.6	100.0	1303
18021	.7	.7	12.5	37.4	35.1	12.2	1.5	21.8	100.0	1317
TOT	50	70	787	2207	2109	742	70	21.6		6035
PCT	.8	1.2	13.0	36.6	34.9	12.3	1.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL OBS	MEAN CLOUD COVER
N	.4	.6	3.4	6.7		7.0
NE	.1	.3	1.3	4.0		7.2
E	.1	.2	.7	4.4		7.5
SE	.1	.1	1.1	5.8		7.5
S	.6	.5	2.8	7.5		7.0
SW	1.3	.8	3.4	6.9		6.5
W	1.6	1.9	8.4	9.3		6.4
NW	1.4	2.5	10.5	10.4		6.4
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.3	.4		6.2
TOT OBS	340	416	1933	3339	6028	6.7
TOT PCT	5.6	6.9	32.1	55.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.1	.0	.3	1.2	4.5	2.8	.1	*	*	*	1.9	
NE	.2	*	.8	2.3	1.1	.1	*	*	*	*	.9	
E	.1	.1	.3	.8	2.2	.8	.1	.1	*	*	.8	
SE	.5	.1	.4	1.2	2.5	.9	.1	.1	.1	.2	1.2	
S	.5	*	.4	1.0	3.0	2.8	.2	.1	.2	.4	2.6	
SW	.1	*	.1	.6	3.4	3.6	.4	.2	.1	.3	3.7	
W	.1	.0	*	.7	7.7	6.8	.4	.1	*	.2	5.2	
NW	.1	*	.1	1.0	9.5	8.1	.4	*	.1	.1	5.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	*	*	.1	.2	*	.0	.0	*	.4	
TOT OBS	100	15	119	442	2125	1630	110	34	38	89	1326	6028
TOT PCT	1.7	.2	2.0	7.3	35.3	27.0	1.8	.6	.6	1.5	22.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.3	2.0	2.1	2.1	2.1	2.1	2.1	2.1
= OR >5000	1.5	2.5	2.6	2.7	2.7	2.7	2.7	2.7
= OR >3500	2.7	4.3	4.4	4.5	4.5	4.5	4.5	4.5
= OR >2000	13.2	30.7	31.2	31.4	31.5	31.5	31.5	31.5
= OR >1000	23.3	62.4	66.0	66.4	66.7	66.7	66.8	66.8
= OR >600	23.8	66.6	72.6	73.6	73.9	74.0	74.1	74.1
= OR >300	23.8	67.5	74.1	75.3	75.8	76.0	76.0	76.0
= OR >150	23.9	67.5	74.2	75.5	76.0	76.2	76.3	76.3
= OR >0	23.9	67.6	74.4	75.9	76.7	77.3	77.9	77.9
TOTAL	1361	4075	4486	4577	4627	4668	4698	4701

TOTAL NUMBER OF OBS: 6031

PCT FREQ NH <5/8: 22.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	DBSCD	TOTAL OBS
2.2	2.2	7.5	6.2	3.9	8.7	16.6	12.0	39.6	1.6	6033	

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	*	.1	.2	.2	*	.1	.1	.0	.0	.7	
	NO PCP	*	.1	*	.2	.2	.1	*	.0	.0	*	.6	
	TOT %	.1	.1	.1	.4	.3	.1	.1	.1	.0	*	1.2	
1/2<1	PCP	.1	.1	.1	.1	.1	*	.1	.1	.0	*	.6	
	NO PCP	*	*	*	.1	.1	*	.0	*	.0	.0	.3	
	TOT %	.1	.1	.1	.2	.2	*	.1	.1	.0	*	.9	
1<2	PCP	.2	.1	.1	.3	.3	.1	.1	.2	.0	*	1.4	
	NO PCP	.0	*	.1	.1	*	.0	*	*	.0	.0	.3	
	TOT %	.2	.1	.2	.4	.3	.1	.1	.2	.0	*	1.6	
2<5	PCP	.6	.6	.8	1.0	.8	.5	.7	1.0	.0	.0	5.6	
	NO PCP	.2	.1	.2	.2	.1	.2	.2	.2	.0	.0	1.3	
	TOT %	.8	.7	.9	1.1	1.0	.6	.9	1.2	.0	.0	7.1	
5<10	PCP	2.0	1.4	1.7	1.8	1.7	1.7	3.6	4.0	.0	.1	18.1	
	NO PCP	3.7	1.9	1.1	1.4	3.6	4.5	7.3	8.7	.0	.2	32.3	
	TOT %	5.7	3.3	2.8	3.2	5.3	6.2	10.9	12.8	.0	.2	50.4	
10+	PCP	.2	*	.1	.1	.1	.2	.5	.8	.0	*	2.1	
	NO PCP	4.0	1.5	1.2	1.7	4.1	5.2	8.6	9.7	.0	.5	36.6	
	TOT %	4.2	1.5	1.3	1.8	4.2	5.4	9.1	10.5	.0	.6	38.7	
TOT OBS													5986
TOT PCT		11.1	5.7	5.5	7.2	11.3	12.4	21.2	24.8	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	*	*	*	.0	.0	.0	*	.1	
	4-10	*	*	.1	*	.1	*	*	*	.0	*	.3	
	11-21	*	*	*	.1	.1	*	*	*	.0	*	.4	
	22+	.1	*	.0	.1	.1	*	*	*	.0	*	.5	
	TOT %	.1	.1	.1	.4	.3	.1	.1	.1	.0	*	1.2	
1/2<1	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	*	*	*	.0	.0	.0	*	.1	
	11-21	*	*	*	.1	.1	*	.0	*	.0	*	.2	
	22+	.1	*	.1	.1	.1	.0	.1	.1	.0	*	.6	
	TOT %	.1	.1	.1	.2	.2	*	.1	.1	.0	*	.9	
1<2	0-3	*	.0	.0	*	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	*	*	*	*	.0	*	.0	*	.1	
	11-21	*	.0	*	.1	.1	*	*	.1	.0	*	.3	
	22+	.2	.1	.2	.3	.1	*	.1	.1	.0	*	1.1	
	TOT %	.2	.1	.2	.4	.3	.1	.1	.2	.0	*	1.6	
2<5	0-3	.0	.0	.0	.0	*	.0	*	.0	.0	.0	*	
	4-10	.1	.1	*	.1	.1	*	.1	.1	.0	.0	.6	
	11-21	.2	.2	.4	.3	.4	.2	.2	.3	.0	*	2.1	
	22+	.5	.3	.5	.7	.5	.3	.6	.8	.0	*	4.3	
	TOT %	.8	.6	.9	1.1	1.0	.6	.9	1.2	.0	.0	7.1	
5<10	0-3	*	*	*	*	.1	.1	.1	*	.0	.2	.6	
	4-10	.7	.6	.5	.5	.6	.9	1.0	.7	.0	*	5.5	
	11-21	2.2	1.5	.9	.9	2.2	2.5	3.2	3.1	.0	*	16.6	
	22+	2.8	1.2	1.3	1.8	2.4	2.6	6.6	8.9	.0	*	27.7	
	TOT %	5.7	3.3	2.8	3.2	5.3	6.2	10.9	12.7	.0	.2	50.3	
10+	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.5	1.2	
	4-10	.6	.4	.5	.5	.9	1.0	1.3	1.4	.0	*	6.4	
	11-21	2.0	.7	.5	.9	2.1	2.7	3.9	4.2	.0	*	16.9	
	22+	1.6	.4	.3	.4	1.2	1.6	3.8	4.9	.0	*	14.3	
	TOT %	4.2	1.6	1.3	1.8	4.2	5.5	9.1	10.5	.0	.5	38.8	
TOT OBS													6032
TOT PCT		11.2	5.8	5.4	7.2	11.3	12.4	21.1	24.8	.0	.8	100.0	

OCTOBER

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1945-1972

AREA 0002 OSV BRAYN
56.9N 51.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.9	.4	1.7	6.4	34.5	26.3	1.1	1.0	.7	2.0	75.9	24.1	1508
06009	.9	.2	1.3	6.6	32.7	28.8	1.7	.5	.9	1.5	75.0	25.0	1508
12015	2.0	.1	2.7	7.6	36.0	26.7	2.5	.5	.6	1.1	79.7	20.3	1500
18021	1.8	.3	2.2	8.8	37.7	26.3	2.0	.3	.4	1.3	81.1	18.9	1517
TOT	100	15	119	442	2126	1630	110	34	38	89	4703	1330	6033
PCT	1.7	.2	2.0	7.3	35.2	27.0	1.8	.6	.6	1.5	78.0	22.0	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.3	.5	1.8	6.5	53.6	36.4	1510
06009	.5	.5	.9	7.6	53.0	37.5	1506
12015	1.5	1.7	1.7	6.8	46.6	41.6	1504
18021	1.6	.9	2.0	7.4	48.1	40.0	1517
TOT	74	56	97	427	3037	2346	6037
PCT	1.2	.9	1.6	7.1	50.3	38.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.9	4.3	14.9	61.1	24.0	1508
06009	.9	2.9	13.9	61.4	24.8	1506
12015	2.0	5.5	16.5	63.8	19.7	1500
18021	1.8	5.1	18.4	63.3	18.3	1517
TOT	100	268	961	3763	1307	6031
PCT	1.7	4.4	13.9	62.4	21.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	.0	.0	.0	2	*
45/49	.0	.0	.0	.1	.3	1.9	4.5	6.7	804	13.5
40/44	.0	.0	*	.7	6.7	12.7	15.4	12.4	2846	47.9
35/39	.0	.0	.1	2.4	8.1	11.2	8.1	4.8	2062	34.7
30/34	.0	.0	*	.2	.7	1.0	1.2	.7	230	3.9
25/29	.0	.0	.0	.0	.0	.0	*	.0	2	*
TOTAL	0	0	10	199	939	1590	1739	1469	5946	100.0
PCT	.0	.0	.2	3.3	15.8	26.7	29.2	24.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50	.0	*	.0	.0	*	*	.0	.0	.0	.0
45	.6	.9	1.3	3.4	3.6	2.4	1.0	.4	.0	.1
40	6.0	3.4	3.3	3.3	5.7	6.2	9.0	10.5	.0	.5
35	4.3	1.4	.9	.6	1.7	3.5	9.7	12.3	.0	.2
30	.3	.1	*	*	.2	.4	1.4	1.5	.0	.1
25	.0	.0	.0	.0	.0	.0	.0	*	.0	.0
TOT	11.2	5.8	5.5	7.3	11.3	12.3	21.0	24.8	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	48	47	46	40	35	33	30	40.4	1510
06009	49	47	46	40	35	33	30	40.4	1508
12015	51	48	46	41	35	32	29	40.7	1504
18021	49	47	46	40	35	32	28	40.6	1518
TOT	51	47	46	40	35	33	28	40.5	6040

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.9	14.6	25.9	29.2	26.3	81	1484
06009	.0	3.8	13.8	26.3	29.4	24.7	80	1491
12015	.0	3.3	16.2	28.0	29.1	23.4	80	1476
18021	.0	3.1	16.6	26.7	29.3	24.3	80	1500
TOT	0	209	941	1591	1741	1469	80	5951

OCTOBER

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1943-1972

TABLE 17

AREA 0002 OSV BRAVO
36.3N 91.0WPCT FREQ OF AIR TEMPERATURE (DEG F) AND TYP OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.0	*	*	*	4	*	.1
6	.0	.0	.0	.0	*	.1	*	8	.1	.1
5	.0	.0	.0	.0	*	.3	.0	20	.1	.3
4	.0	.0	.0	*	.3	.9	*	74	.2	1.0
3	.0	.0	.0	*	.4	1.5	.1	121	.3	1.8
2	.0	.0	.0	.1	1.6	2.2	.1	232	.2	3.6
1	.0	.0	*	.7	3.6	2.3	*	365	.2	5.9
0	.0	.0	*	.8	4.1	2.3	.0	429	.3	6.9
-1	.0	.0	.1	1.4	6.0	1.8	.0	550	.2	9.0
-2	.0	.0	*	2.7	5.8	1.3	.0	585	.2	9.6
-3	.0	.0	.1	5.0	6.1	.4	.0	697	.1	11.5
-4	.0	.0	.7	6.3	4.0	.2	.0	676	.1	11.2
-5	.0	.0	1.5	7.4	2.1	.1	.0	665	*	11.1
-6	.0	.0	2.2	6.2	1.0	*	.0	567	.1	9.4
-7/-8	.0	.1	4.5	5.7	.7	.1	.0	658	*	11.0
-9/-10	.0	.4	1.9	1.5	.2	.0	.0	233	.0	3.9
-11/-13	*	.3	.4	.6	.1	.0	.0	90	.0	1.5
-14/-16	.0	*	.1	.1	.0	.0	.0	12	.0	.2
-17/-19	.0	.0	*	.0	.0	.0	.0	1	.0	*
TOTAL	1		692	2153			12	5980	117	5863
PCT	*	.46	11.6	37.9	36.0	13.6	.2	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.1	.0	.0	.0	.0	.2	*	.3	.0	.0	.0	.0	.4
1-2	.0	.4	.3	.0	.0	.0	.6	*	.2	.3	.0	.0	.0	.6
3-4	.0	.3	1.0	.1	.0	.0	1.7	.0	.1	.8	.1	.0	.0	1.0
5-6	*	.1	1.3	.2	.0	.0	1.7	*	*	.4	.1	.0	.0	.5
7	.0	*	1.0	.7	.0	.0	1.7	.0	*	.3	.3	.0	.0	.7
8-9	.0	.1	.4	.8	*	.0	1.4	.0	*	.2	.5	.0	.0	.8
10-11	.0	.1	.3	.7	.0	.0	1.1	.0	.0	*	.3	*	.0	.3
12	.0	*	.1	.4	.2	.0	.7	.0	.0	*	.3	.0	.0	.3
13-16	.0	.0	.1	.2	.2	.0	.5	.0	.0	.1	.3	.3	.0	.6
17-19	.0	.0	.1	.4	.4	.1	.9	.0	.0	*	.1	.1	.0	.1
20-22	.0	.0	.0	*	.4	.0	.4	.0	.0	.0	.1	.1	.0	*
23-25	.0	.0	.0	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	*	*	.1	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.5	4.6	3.5	1.3	.2	11.3	.1	.7	2.2	1.9	.4	.0	5.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	*	.4	.0	.0	.0	.0	.5	.1	.3	.0	.0	.0	.0	.3
1-2	.0	.3	.2	.0	.0	.0	.7	*	.5	.4	.0	.0	.0	.9
3-4	.0	.2	.3	.1	.0	.0	.8	.0	.1	.3	.1	.0	.0	.6
5-6	.0	*	.4	.3	.0	.0	.7	.0	.1	.4	.3	.0	.0	.8
7	.0	.0	.3	.4	.0	.0	.9	*	.1	.5	.3	.0	.0	1.1
8-9	.0	.0	.4	.5	.0	.0	.9	.0	.0	.4	.5	.0	.0	1.0
10-11	.0	.0	*	.4	*	.0	.5	.0	.0	.2	.7	.1	.0	1.1
12	.0	.0	.0	.1	.1	.0	.2	.0	.0	.1	.4	.1	.0	.6
13-16	.0	*	*	.1	.1	.0	.3	.0	.0	.1	.3	.2	.0	.6
17-19	.0	.0	.0	.1	.2	.0	.2	.0	.0	.0	.2	.4	.0	.6
20-22	.0	.0	.0	.1	.1	.1	.3	.0	.0	*	.1	.6	.1	.9
23-25	.0	.0	.0	*	.1	.0	.1	.0	.0	.0	.1	.1	*	.2
26-32	.0	.0	.0	*	.1	*	.2	.0	.0	.0	.0	*	*	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	1.2	2.1	2.1	.7	.1	6.2	.1	1.0	2.7	3.3	1.5	.1	8.8

PERIOD: (OVER-ALL) 1963-1972

OCTOBER

AREA 0002 QSV BRAVJ
56.5N 51.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	*	.0	.0	.0	.5	.1	.2	*	.0	.0	.0	.9
1-2	.0	.7	.8	.0	.0	.0	1.5	.0	.3	.5	.0	.0	.0	.8
3-4	.0	.4	1.4	.2	.0	.0	2.0	.0	.6	1.0	*	.0	.0	1.6
5-6	.0	.2	1.0	.2	.0	.0	1.3	*	.2	1.2	.2	.0	.0	1.7
7	.0	.1	.9	.6	*	.0	1.6	.0	.1	.7	.6	.0	.0	1.4
8-9	.0	.1	.5	.6	.0	.0	1.2	*	.1	.6	.5	.0	.0	1.3
10-11	.0	.1	.5	.6	.0	.0	1.2	.0	*	.8	.9	.1	.0	1.9
12	.0	*	.4	.7	*	.0	1.2	.0	.0	.3	.7	.1	.0	1.0
13-16	.0	.0	.1	1.0	.1	.0	1.2	.0	.0	.1	1.0	.4	.0	1.5
17-19	.0	.0	.0	.3	*	.0	.4	.0	.0	.0	.1	.2	.0	.3
20-22	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	*	.1	*	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*
26-32	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.8	5.6	4.3	.4	.0	12.4	.2	1.6	5.2	4.1	.8	*	11.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.7	*	.0	.0	.0	.9	.1	.3	.0	.0	.0	.0	.5	
1-2	.0	.4	.2	.0	.0	.0	.6	.0	.7	.5	.0	.0	.0	1.2	
3-4	.0	.3	1.4	.0	.0	.0	1.7	*	.6	1.7	.3	.0	.0	2.6	
5-6	*	.2	1.6	.3	.0	.0	2.2	.0	.3	1.1	.5	.0	.0	1.9	
7	.0	.2	1.5	1.1	*	.0	2.8	.0	.3	1.7	1.0	*	.0	3.1	
8-9	*	.1	.7	1.0	.0	.0	1.8	.0	.1	1.1	1.2	*	.0	2.4	
10-11	.0	.1	1.0	1.8	.1	.0	3.0	.0	*	1.1	1.4	*	.0	2.5	
12	.0	.0	.3	1.1	.3	.0	1.7	.0	*	.2	1.4	.2	.0	1.9	
13-16	.0	.0	.5	1.6	.4	.0	2.6	.0	.0	.4	2.9	1.1	.0	4.3	
17-19	.0	.0	.0	.7	.3	.0	1.0	.0	.0	*	1.1	.8	*	2.0	
20-22	.0	.0	.0	.1	.5	*	.6	.0	.0	.0	.1	.4	.0	.5	
23-25	.0	.0	.0	.1	.3	*	.5	.0	.0	.0	*	.1	.1	.3	
26-32	.0	.0	.0	*	.2	*	.3	.0	.0	.0	.0	.1	.2	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.0	7.3	7.9	2.1	.1	19.6	.2	2.4	7.8	10.0	2.7	.3	23.4	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1		2.6	.1	.0	.0	.0	4.7	
1-2	2.0	3.8	3.1	.0	.0	.0	7.0	
3-4	.1	2.7	8.3	.9	.0	.0	11.9	
5-6	.1	1.2	7.4	2.1	.0	.0	10.9	
7	.1	.8	7.3	5.2	.1	.0	13.4	
8-9	*	.6	4.4	5.7	.1	.0	10.8	
10-11	.0	.3	3.9	4.9	.5	.0	11.7	
12	.0	.1	1.5	5.1	.9	.0	7.6	
13-16	.0	*	1.4	7.3	2.8	.0	11.5	
17-19	.0	.0	.1	3.0	2.4	.1	5.5	
20-22	.0	.0	*	.5	2.1	.2	2.9	
23-25	.0	.0	.0	.3	.6	.3	1.2	
26-32	.0	.0	.0	.1	.6	.3	1.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.4	12.1	37.5	37.1	10.1	.9	100.0	2385

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	.4	3.0	3.2	3.3	.9	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	646
6-7	.0	.1	2.0	3.6	8.1	7.7	6.9	3.2	2.3	.9	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	1980
8-9	.0	*	.4	.8	3.3	4.3	5.7	5.7	6.6	3.2	1.4	.8	.3	*	.0	.0	.0	.0	.0	.0	1936
10-11	.0	*	.1	.2	.7	.8	1.5	1.3	2.7	2.1	1.8	1.0	1.3	.0	.0	.0	.0	.0	.0	.0	761
12-13	.0	.0	.0	.0	*	*	.1	.1	.2	.4	.4	.3	.4	.0	.0	.0	.0	.0	.0	.0	107
>13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	33
INDEX	.3	.2	.9	1.3	.7	.5	.5	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	277
TOTAL	17	46	361	515	911	807	852	599	678	384	224	127	118	1	0	0	0	0	0	0	5640
PCT	.3	.8	6.4	9.1	16.2	14.3	15.1	10.6	12.0	6.8	4.0	2.3	2.1	*	.0	.0	.0	.0	.0	.0	100.0

NOVEMBER

 PERIOD: (PRIMARY) 1953-1972
 (OVER-ALL) 1947-1972

 AREA 0002 OSV BRAVO
 56.5N 51.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR/L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WFA
N	12.1	3.8	1.3	.0	21.3	.1	.7	17.4	6.2	.0	.8	.0	.0	.0	55.6
NE	25.7	2.5	1.8	.0	11.6	.9	.1	19.3	5.4	.0	3.4	.0	.0	.0	51.9
E	28.0	2.5	3.0	.0	13.9	.1	.4	42.5	5.2	.0	4.4	.0	.0	1.3	45.3
SE	29.9	3.7	3.0	.0	10.3	.0	.0	45.1	4.9	.0	3.3	.2	.3	.0	46.2
S	25.3	1.9	2.3	.0	11.9	.1	.3	41.2	5.6	.0	4.5	.2	.1	.0	48.4
SW	9.5	2.8	1.3	.0	19.4	.1	.6	12.6	6.7	.0	1.4	.1	.0	.6	58.6
W	3.1	2.2	.6	.1	25.9	.3	1.6	39.0	9.8	.0	.4	.0	.0	.4	56.5
NW	4.9	3.2	.4	.8	27.4	.0	1.4	35.7	8.9	.0	.3	.0	.1	.0	55.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0	2.5	.0	.0	10.0	.0	.0	17.5	5.0	.0	5.0	2.5	.0	.0	70.0
TOT PCT TOT OBS:	13.9 5639	2.8	1.4	.0	19.7	.2	.8	17.1	7.2	.0	1.9	.1	.1	.3	53.5

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DR/L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000Z	14.4	2.8	1.5	.0	21.1	.3	.9	19.3	6.6	.0	1.7	.1	.0	.5	51.7
0600Z	14.7	2.4	1.2	.0	18.3	.1	.9	15.9	8.1	.0	1.4	.0	.1	.1	54.4
1201Z	13.2	2.9	1.2	.1	19.1	.0	.9	35.9	8.0	.0	2.3	.1	.1	.3	53.4
1802Z	13.3	3.0	1.7	.0	20.1	.4	.6	17.3	5.9	.0	2.1	.1	.1	.2	54.3
TOT PCT TOT OBS:	13.9	2.8	1.4	.0	19.7	.2	.8	17.1	7.2	.0	1.9	.1	.1	.3	53.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15
N	.2	1.8	4.3	3.0	1.1	.1	10.5	19.9		10.0	10.9	10.0	11.7	11.7	11.0
NE	.1	1.4	2.6	2.4	1.1	.1	7.6	21.7		8.1	7.2	8.5	7.4	7.7	6.7
E	.2	1.3	2.7	2.1	1.1	.4	8.1	22.3		7.0	8.0	7.5	7.8	8.0	8.4
SE	.1	1.3	2.7	2.9	1.2	.1	8.2	21.9		8.3	7.1	8.0	8.3	8.3	9.2
S	.1	1.2	4.1	4.2	1.8	.3	11.7	23.3		11.5	12.4	12.3	12.0	11.1	11.0
SW	.2	1.7	5.6	4.6	1.5	.3	14.2	21.6		13.9	14.9	13.4	14.6	14.3	14.6
W	.1	2.3	7.1	7.6	2.5	.5	20.1	22.8		21.7	19.3	20.6	18.9	19.9	19.8
NW	.2	2.4	6.9	6.6	2.5	.2	18.9	22.3		18.8	19.6	19.2	19.0	17.9	18.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.7						.7	.0		.7	.5	.6	.4	1.0	.8
TOT OBS	110	767	2058	1901	730	108	5674	21.9		706	728	697	700	705	734
TOT PCT	1.9	13.5	36.3	33.5	12.9	1.9	100.0			100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	.7	3.7	3.7	2.0	.3	10.5	19.9		10.4	10.8	11.4	9.5
NE	.6	2.2	2.6	1.8	.4	7.6	21.7		7.7	7.9	7.2	7.8
E	.6	2.4	2.4	1.8	.8	8.1	22.3		7.5	7.6	8.2	8.9
SE	.5	2.4	2.6	2.4	.4	8.2	21.9		7.7	8.1	8.8	8.5
S	.4	2.9	4.4	3.3	.7	11.7	23.3		12.0	12.2	11.1	11.7
SW	.7	4.0	5.6	3.2	.5	14.2	21.6		14.4	14.0	14.4	13.8
W	.8	5.1	7.9	5.1	1.1	20.1	22.8		20.5	19.8	19.9	20.1
NW	.9	5.0	7.3	4.8	1.1	18.9	22.3		19.2	19.1	18.2	19.0
VAR	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0
CALM	.7					.7	.0		.6	.5	.9	.8
TOT OBS	343	1578	2074	1377	302	5674	21.9		1494	1397	1439	1404
TOT PCT	6.0	27.8	36.6	24.3	5.3	100.0			100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1947-1972AREA 0002 OSV NRAYD
56.5N 51.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
00003	.6	1.0	14.7	35.9	32.8	12.2	2.6	22.0	100.0	1434	
06009	.5	1.2	12.8	38.3	33.0	12.5	1.7	21.7	100.0	1397	
12015	.9	1.2	12.8	36.3	34.2	13.3	1.3	22.0	100.0	1439	
18021	.8	1.5	13.7	34.5	34.0	13.5	1.9	22.1	100.0	1404	
TOT	40	70	767	2058	1901	730	108	21.9		5674	
PCT	.7	1.2	13.5	36.3	33.5	12.9	1.9	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.5	2.9	6.6		7.0
NE	.3	.2	1.3	5.8		7.3
E	.2	.4	1.3	6.2		7.3
SE	.2	.3	1.0	6.8		7.4
S	.4	.4	1.9	9.0		7.3
SW	.6	.7	4.5	8.4		6.9
W	.8	1.4	8.1	9.7		6.7
NW	1.1	1.5	7.4	8.9		6.5
VAR	.0	.0	.0	.0		.0
CALM	.1	.4	.2	.4		6.8
TOT OBS	237	310	1622	3502	5671	7.0
TOT PCT	4.2	5.5	28.6	61.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
.2	.0	.1	.7	3.9	3.5	*	*	*	.0	2.1		
.3	.0	.2	.8	3.3	1.8	.1	*	*	*	1.1		
.4	.0	.2	1.1	2.7	2.3	.1	.0	*	*	1.2		
.4	.0	.3	1.1	3.1	2.0	.1	*	.1	.1	1.2		
.4	.0	.3	1.4	4.6	3.0	.2	.1	.1	*	1.7		
.3	.0	.2	.7	5.6	4.8	.1	*	.1	*	2.4		
.1	.0	.1	.4	8.7	6.9	.4	.1	*	*	3.3		
.2	.0	.2	.6	7.8	6.1	.1	*	*	*	3.8		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
*	.0	.0	.0	.2	.2	.0	*	.0	*	.2		
126	0	93	393	2259	1732	61	14	19	13	959		5671
2.2	.0	1.6	6.9	39.8	30.5	1.1	.2	.3	.3	16.9		100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	OR			VSBY (NM)			OR		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	
>6500	.3	.5	.6	.6	.6	.6	.6	.6	
>5000	.4	.8	.8	.8	.8	.8	.8	.8	
>3500	1.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
>2000	15.7	31.2	32.2	32.3	32.5	32.5	32.5	32.5	
>1000	25.5	65.8	70.5	71.7	72.1	72.2	72.3	72.3	
>600	25.9	69.6	76.2	78.0	78.9	79.1	79.2	79.2	
>300	25.9	70.1	77.3	79.3	80.5	80.8	80.8	80.8	
>150	25.9	70.1	77.3	79.3	80.5	80.8	80.8	80.8	
>0	25.9	70.1	77.4	79.6	81.4	82.3	83.0	83.1	
TOTAL	1470	3974	4393	4518	4616	4668	4709	4712	

TOTAL NUMBER OF OBS: 5673

PCT FREQ NM <5/8: 16.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS	
.4	1.2	6.1	9.2	3.5	7.5	15.3	11.0	47.1	2.2	5677

NOVEMBER

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1947-1972

AREA 0002 OSV NNAVD
56.9N 51.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	.6	1.0	14.7	35.9	32.8	12.2	2.6	22.0	100.0	1434
06009	.5	1.2	12.8	38.3	33.0	12.5	1.7	21.7	100.0	1397
12015	.9	1.2	12.8	36.3	34.2	13.3	1.3	22.0	100.0	1439
18021	.8	1.5	13.7	34.5	34.0	13.5	1.9	22.1	100.0	1404
TOT	40	70	767	2058	1901	730	108	21.9		5674
PCT	.7	1.2	13.5	36.3	33.5	12.9	1.9	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	.5	.5	2.9	6.6		7.0
NE	.3	.2	1.3	5.8		7.3
E	.2	.4	1.3	6.2		7.3
SE	.2	.3	1.0	6.8		7.4
S	.4	.4	1.9	9.0		7.3
SW	.6	.7	4.3	8.4		6.9
W	.8	1.4	8.1	9.7		6.7
NW	1.1	1.5	7.4	8.9		6.5
VAR	.0	.0	.0	.0		.0
CALM	.1	.0	.2	.4		6.8
TOT OBS	237	310	1622	3502	5671	7.0
TOT PCT	4.2	5.5	28.6	61.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

AND ACCURACY OF NH 1970 BY WIND DIRECTION											
000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.2	.0	.1	.7	3.9	3.5	*	*	*	.0	2.1	
.3	.0	.2	.8	3.3	1.8	.1	*	*	*	1.1	
.4	.0	.2	1.1	2.7	2.3	.1	.0	*	*	1.2	
.4	.0	.3	1.1	3.1	2.0	.1	*	.1	.1	1.2	
.4	.0	.3	1.4	4.6	3.0	.2	.1	.1	*	1.7	
.3	.0	.2	.7	5.6	4.8	.1	*	.1	*	2.4	
.1	.0	.1	.4	8.7	6.9	.4	.1	*	*	3.3	
.2	.0	.2	.6	7.8	6.1	.1	*	*	*	3.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
*	.0	.0	*	.2	.2	.0	*	.0	*	.2	
126	0	93	393	2259	1732	61	14	19	15	959	
2.2	.0	1.6	6.9	39.8	30.5	1.1	.2	.3	.3	16.9	
										5671 100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.3	.5	.6	.6	.6	.6	.6	.6
>5000	.4	.8	.8	.8	.8	.8	.8	.8
>3500	1.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9
>2000	15.7	31.2	32.2	32.3	32.5	32.5	32.5	32.5
>1000	25.5	65.8	70.5	71.7	72.1	72.2	72.3	72.3
>600	25.9	69.6	76.2	78.0	78.9	79.1	79.2	79.2
>300	25.9	70.1	77.3	79.3	80.5	80.8	80.8	80.8
>150	25.9	70.1	77.3	79.3	80.5	80.8	80.8	80.8
>0	25.9	70.1	77.4	79.6	81.4	82.3	83.0	83.1
TOTAL	1470	3974	4393	4518	4818	4668	4709	4712

TOTAL NUMBER OF OBS: 5673

PCT FREQ NH <5/8: 16.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL
.9	1.2	6.1	9.2	3.5	7.5	19.3	11.0	47.1	2.2	5677

NOVEMBER

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1947-1972AREA 0002 OSV BRAVO
56.5N 51.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.2	.1	.1	.2	.1	.1	.0	*	.9	
	NO PCP	.1	.1	.1	.2	.2	.1	*	.0	.0	*	.8	
	TOT %	.2	.2	.3	.3	.3	.3	.2	.1	.0	*	1.7	
1/2<1	PCP	.1	.1	.2	.2	.2	.2	.1	.1	.0	*	1.3	
	NO PCP	.0	*	.2	.1	.1	*	*	.0	.0	*	.5	
	TOT %	.1	.2	.4	.3	.3	.2	.1	.1	.0	*	1.8	
1<2	PCP	.2	.3	.4	.3	.3	.2	.2	.3	.0	.0	2.0	
	NO PCP	.0	*	.1	*	.1	*	*	.0	.0	.0	.4	
	TOT %	.2	.3	.5	.3	.4	.2	.2	.3	.0	.0	2.3	
2<5	PCP	.6	.6	.8	.8	1.2	.8	1.0	1.0	.0	.0	6.8	
	NO PCP	*	.1	.1	.2	.2	.1	.2	.1	.0	.0	.9	
	TOT %	.6	.7	1.0	1.0	1.3	.9	1.1	1.0	.0	.0	7.7	
5<10	PCP	2.5	1.7	1.7	2.1	2.8	2.7	4.0	4.3	.0	.1	21.9	
	NO PCP	3.2	2.4	1.9	1.9	3.3	4.3	6.4	6.2	.0	.1	29.8	
	TOT %	5.6	4.1	3.7	4.0	6.2	7.1	10.3	10.4	.0	.2	51.6	
10+	PCP	.5	.2	.2	.2	.3	.5	1.2	1.0	.0	.0	4.2	
	NO PCP	3.4	2.0	2.1	2.2	3.0	4.9	6.8	5.9	.0	.4	30.6	
	TOT %	3.9	2.2	2.3	2.5	3.3	5.4	8.0	6.8	.0	.4	34.8	
TOT OBS													5642
TOT PCT		10.6	7.7	8.1	8.3	11.7	14.1	20.0	18.9	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	*	.1	.0	.0	.0	.0	*	.0	.0	*	.2	
	11-21	.1	*	.1	.1	.1	.1	.1	.0	.0	*	.5	
	22+	.1	*	.2	.2	.2	.1	.1	.1	.0	.0	.9	
	TOT %	.2	.2	.3	.3	.3	.3	.2	.1	.0	*	1.7	
1/2<1	0-3	.0	.0	.0	.0	.0	*	*	.0	.0	*	.1	
	4-10	*	.0	*	*	*	*	.0	.0	.0	.0	.1	
	11-21	*	*	*	*	*	.1	.1	*	.0	.0	.4	
	22+	.1	.1	.3	.2	.3	.1	.1	.1	.0	.0	1.2	
	TOT %	.1	.2	.4	.3	.3	.2	.1	.1	.0	*	1.8	
1<2	0-3	*	.0	.0	.0	.0	*	*	.0	.0	.0	*	
	4-10	*	.0	*	.0	*	*	*	.0	.0	.0	.1	
	11-21	*	.1	.1	.1	.1	.1	.1	.1	.0	.0	.6	
	22+	.1	.2	.4	.2	.3	.1	.1	.2	.0	.0	1.6	
	TOT %	.2	.3	.5	.3	.4	.2	.2	.3	.0	.0	2.3	
2<5	0-3	.0	.0	*	.0	.0	.0	*	*	.0	.0	.1	
	4-10	.1	.1	*	*	*	.1	.1	*	.0	.0	.5	
	11-21	.2	.2	.2	.3	.3	.3	.2	.3	.0	.0	2.0	
	22+	.4	.4	.6	.6	1.0	.6	.9	.7	.0	.0	5.1	
	TOT %	.6	.7	.9	1.0	1.3	.9	1.2	1.0	.0	.0	7.7	
5<10	0-3	.1	*	.1	*	*	.1	.1	.1	.0	.2	.8	
	4-10	.8	.6	.5	.4	.5	.7	.9	1.1	.0	.0	5.4	
	11-21	2.3	1.4	1.4	1.2	2.1	2.6	3.3	3.5	.0	.0	17.7	
	22+	2.4	2.1	1.6	2.3	3.5	3.7	6.1	5.8	.0	.0	27.5	
	TOT %	5.6	4.1	3.6	4.0	6.1	7.1	10.3	10.4	.0	.2	51.5	
10+	0-3	*	*	.1	.1	.1	.1	.1	.1	.0	.4	.9	
	4-10	.9	.6	.8	.8	.6	.9	1.3	1.2	.0	.0	7.2	
	11-21	1.7	.8	.9	.9	1.6	2.6	3.4	3.0	.0	.0	15.0	
	22+	1.2	.8	.6	.6	1.1	1.8	3.4	2.6	.0	.0	12.0	
	TOT %	3.9	2.2	2.3	2.5	3.3	5.5	8.1	6.9	.0	.4	35.0	
TOT OBS													5672
TOT PCT		10.5	7.6	8.1	8.3	11.7	14.2	20.1	18.9	.0	.7	100.0	

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PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1947-1972AREA 0002 DSV ARAYD
56.5N 51.0W

TABLE 10

PERCENT FREQUENCY OF CRILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	180 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	2.2	.0	1.1	6.9	38.2	31.0	.2	.3	.4	.3	80.7	19.3	1434
06009	1.5	.0	.9	4.9	40.4	33.4	.4	.2	.3	.1	82.2	17.8	1397
12015	2.8	.0	2.5	8.1	38.8	30.5	1.9	.2	.4	.3	85.5	14.5	1439
18021	2.4	.0	2.1	7.8	41.8	27.3	1.8	.2	.2	.3	83.8	16.2	1405
TOT	126	0	93	394	2259	1733	61	14	19	15	4714	961	5675
PCT	2.2	.0	1.6	6.9	39.8	30.5	1.1	.2	.3	.3	83.1	16.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.7	1.5	2.1	7.7	52.6	34.4	1434
06009	1.0	1.1	2.2	7.1	54.1	34.5	1399
12015	2.1	2.4	2.1	7.5	49.3	36.6	1438
18021	2.1	1.9	2.8	8.5	50.1	34.6	1405
TOT	97	100	131	436	2924	1988	5676
PCT	1.7	1.8	2.3	7.7	51.5	35.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	2.2	4.6	17.2	63.9	19.0	1433
06009	1.5	3.2	14.6	67.9	17.5	1397
12015	2.8	6.7	19.1	67.1	13.8	1438
18021	2.4	5.9	19.8	64.4	15.8	1405
TOT	126	291	1002	3734	937	5675
PCT	2.2	5.1	17.7	65.8	16.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	*	.0	.0	.0	1	*
45/49	.0	.0	.0	*	.0	.2	.5	1.3	118	2.1
40/44	.0	.0	.0	.1	1.1	3.5	6.9	11.2	1281	22.7
35/39	.0	.0	.1	1.8	6.6	13.0	11.7	11.8	2547	45.1
30/34	.0	.0	.3	2.0	6.7	6.9	6.8	3.6	1482	26.2
25/29	.0	.0	*	.2	.8	1.2	.7	.7	208	3.7
20/24	.0	.0	.0	.0	*	.1	.1	*	15	.3
TOTAL	0	0	21	234	862	1405	1510	1620	5652	100.0
PCT	.0	.0	.4	4.1	15.3	24.9	26.7	28.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.0	.0	*	*	.0	.0	.0	.0	.0
45/49	*	.2	.3	.5	.8	.2	*	*	.0	.0
40/44	1.6	2.4	3.0	3.7	4.7	3.3	2.3	1.5	.0	.2
35/39	6.1	4.0	4.0	3.3	4.6	6.5	8.0	8.4	.0	.3
30/34	2.8	1.0	.6	.6	1.5	3.5	7.9	8.1	.0	.2
25/29	.1	*	.1	.1	.2	.6	1.7	.9	.0	.0
20/24	.0	*	.0	.0	*	.1	.1	*	.0	.0
TOTAL	10.6	7.7	8.0	8.2	11.8	14.2	20.1	18.9	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	48	45	43	37	30	27	21	36.6	1435
06009	50	45	43	37	30	27	22	36.6	1399
12015	48	45	43	37	30	26	21	36.7	1439
18021	46	45	43	36	30	27	22	36.6	1404
TOT	50	45	43	37	30	27	21	36.6	5677

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.5	15.0	24.8	25.2	30.5	81	1432
06009	.0	3.7	15.3	24.9	28.1	28.0	81	1395
12015	.0	5.2	14.2	27.2	26.5	26.8	80	1432
18021	.0	4.6	16.5	22.5	27.0	29.3	81	1397
TOT	0	255	862	1407	1510	1622	80	5656

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TABLE 17

AREA 0002 OSV BRAVN
56.5N 51.0W

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
6	.0	.0	.0	.0	.0	*	.1	5	*	.1
5	.0	.0	.0	.0	.0	.1	.2	17	.1	.2
4	.0	.0	.0	*	*	.5	.3	46	*	.8
3	.0	.0	.0	*	.2	1.6	.3	116	.1	1.9
2	.0	.0	.0	.0	.5	2.2	.6	186	.3	3.0
1	.0	.0	.0	.0	1.2	2.7	.2	234	.4	3.7
0	.0	.0	.0	*	2.7	3.0	.4	343	.2	5.9
-1	.0	.0	*	.1	4.9	2.1	*	403	.2	6.9
-2	.0	.0	*	.9	5.9	1.0	.0	440	.2	7.6
-3	.0	.0	*	1.6	6.9	1.0	.1	535	.2	9.3
-4	.0	.0	.0	4.0	5.5	.5	.0	566	.1	9.9
-5	.0	.0	.1	5.5	4.1	.1	.0	556	.0	9.9
-6	.0	*	.9	6.4	1.5	.1	.0	496	.0	8.8
-7/-8	.0	.1	5.0	9.5	1.2	*	.0	893	*	15.0
-9/-10	.0	.4	4.7	2.9	.5	.0	.0	481	.0	8.5
-11/-13	*	.9	2.2	1.0	*	.0	.0	233	.0	4.1
-14/-16	.1	.4	.3	.1	.0	.0	.0	48	.0	.9
-17/-19	.1	.2	.3	.0	.0	.0	.0	32	.0	.6
-20/-22	*	.1	.0	.0	.0	.0	.0	4	.0	.1
TOTAL	16		760		1988		118		106	5528
PCT	.3	113 2.0	1808 13.5	831 32.1	831 35.3	2.1 14.7		5634 100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.2	.0	.0	.0	.0	.3		*	.2	.0	.0	.0	.0	.2	
1-2	.0	.3	.3	.0	.0	.0	.6		.0	.4	.2	.0	.0	.0	.6	
3-4	.0	.2	.7	.1	.0	.0	1.1		.0	.2	.4	*	.0	.0	.7	
5-6	.0	.3	.9	.2	.0	.0	1.4		.0	.0	.5	.4	.0	.0	.9	
7	.0	.3	.6	.4	.0	.0	1.3		.0	.1	.1	.4	.0	.0	.6	
8-9	.0	*	.3	.4	.1	.0	.8		.0	*	.1	.3	.0	.0	.4	
10-11	.0	.1	.4	.4	.0	*	.9		.0	.0	.3	.4	.1	.0	.8	
12	.0	*	.4	.4	.1	.0	.9		*	.0	.2	.4	.3	.0	.8	
13-16	.0	.0	.0	.2	.2	.0	.5		.0	.0	.1	.9	.4	.0	1.4	
17-19	.0	.0	.0	.1	.2	.0	.3		.0	.0	.1	.2	.4	.0	.7	
20-22	.0	.0	.0	.1	.1	.0	.2		.0	.0	.0	*	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	*	.1	.1	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.6	3.6	2.3	.8	*	8.3		*	.9	1.9	3.0	1.6	.1	7.6	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	*	.4	.0	.0	.0	.0	.4		.2	.7	.0	.0	.0	.0	.9	
1-2	*	.4	.2	.0	.0	.0	.7		*	.4	.4	.0	.0	.0	.8	
3-4	*	.2	.7	.1	.0	.0	1.2		.0	.2	.9	.2	.0	.0	1.3	
5-6	.0	*	.6	.1	.0	.0	.7		.0	.2	.3	.3	.0	.0	.8	
7	.0	.0	.4	.3	.0	.0	.7		.0	*	.3	.4	*	.0	.8	
8-9	.0	*	.1	.5	.0	.0	.7		.0	*	.2	.7	*	.0	1.0	
10-11	.0	.0	.2	.4	*	.0	.7		.0	*	*	.5	.1	.0	.7	
12	.1	*	.2	.1	.2	.0	.6		.0	.0	.1	.6	.2	.0	.9	
13-16	.0	.0	.0	.4	.4	.0	.8		.0	.0	.0	.6	.4	.0	1.0	
17-19	.0	.0	*	.2	.2	.1	.6		.0	.0	*	.1	.4	.0	.5	
20-22	.0	.0	.0	*	.2	.1	.3		.0	.0	.0	.1	.2	.0	.3	
23-25	.0	.0	.0	.0	.1	.3	.4		.0	.0	.0	*	.2	.1	.3	
26-32	.0	.0	.0	.0	.0	.5	.5		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.2	2.5	2.2	1.1	1.1	8.3		.2	1.6	2.4	3.4	1.5	.1	9.2	

PERIOD: (OVER-ALL) 1963-1972

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AREA 0002 DSV BRAVO
50.5N 51.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.1	.3	.0	.0	.0	.0	.4	.1	.2	.0	.0	.0	.0	.3	
1-2	.0	.1	.4	.0	.0	.0	.5	.1	.3	.1	.0	.0	.0	.6	
3-4	.0	.4	.7	.0	.0	.0	1.1	.0	.3	1.0	.0	.0	.0	1.3	
5-6	.0	.2	.8	.3	.0	.0	1.3	.0	.3	1.0	.2	.0	.0	1.5	
7	.0	.2	.5	.4	.0	.0	1.3	.0	.2	1.4	1.0	.0	.0	2.6	
8-9	.0	.1	.7	.9	.1	.0	1.9	.0	.1	.8	.7	.0	.0	1.7	
10-11	.0	.0	.6	1.0	.3	.0	1.9	.0	.2	1.4	.9	.0	.0	2.5	
12	.0	.0	.5	.8	.2	.0	1.5	.0	.0	.4	1.2	.1	.0	1.7	
13-16	.0	.1	.1	.9	.8	.1	2.0	.0	.0	.1	1.7	.8	.0	2.6	
17-19	.0	.0	.0	.3	.5	.1	.9	.0	.0	.1	.0	.0	.1	.6	
20-22	.0	.0	.0	.1	.3	.1	.4	.0	.0	.0	.3	.3	.2	.8	
23-25	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.1	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.4	4.3	4.9	2.4	.5	13.7	.2	1.7	6.3	5.9	1.7	.4	16.1	

W								NW								TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT	
<1	.1	.2	.0	.0	.0	.0	.3	.1	.3	.0	.0	.0	.0	.5		
1-2	.0	.6	.1	.0	.0	.0	.7	.0	.8	.3	.0	.0	.0	1.1		
3-4	.0	.4	.6	.2	.0	.0	1.3	.0	.5	1.0	.0	.0	.0	1.5		
5-6	.0	.2	1.1	.3	.0	.0	1.6	.0	.2	.8	.3	.0	.0	1.3		
7	.0	.2	1.4	.8	.0	.0	2.4	.0	.4	1.4	1.0	.0	.0	2.7		
8-9	.0	.1	1.0	1.4	.0	.0	2.6	.0	.2	.9	.8	.1	.0	2.0		
10-11	.1	.1	.8	1.8	.1	.0	2.9	.1	.1	.6	.9	.1	.0	1.8		
12	.0	.0	.7	1.9	.3	.0	2.9	.0	.0	.3	1.2	.2	.0	1.8		
13-16	.0	.0	.3	1.4	.5	.0	2.3	.0	.0	.3	1.2	.4	.0	1.9		
17-19	.0	.0	.0	.3	.3	.0	.7	.0	.0	.0	.5	.5	.0	1.0		
20-22	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.1	.8	.0	1.0		
23-25	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.3	.0	.3		
26-32	.0	.0	.0	.0	.3	.1	.5	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.2	1.8	6.1	8.3	2.1	.2	18.9	.2	2.5	5.8	5.9	2.4	.1	16.9	99.1	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.6	2.6	.0	.0	.0	.0	4.2	
1-2	.2	3.4	2.1	.0	.0	.0	5.7	
3-4	.0	2.4	6.2	.8	.0	.0	9.4	
5-6	.0	1.3	6.0	2.0	.0	.0	9.3	
7	.0	1.5	6.1	4.7	.1	.0	12.4	
8-9	.0	.7	4.2	5.7	.4	.0	11.0	
10-11	.2	.5	4.5	6.4	.6	.0	12.3	
12	.1	.1	2.6	6.6	1.6	.0	11.0	
13-16	.0	.1	.9	7.3	4.0	.1	12.5	
17-19	.0	.0	.3	1.7	2.9	.3	5.2	
20-22	.0	.0	.0	.0	2.2	.5	3.6	
23-25	.0	.0	.0	.1	1.2	.6	1.8	
26-32	.0	.0	.0	.0	.6	.9	1.5	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.2	12.6	33.0	36.0	13.6	2.6	100.0	2110

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.1	.3	3.6	3.4	2.4	.7	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	620	5
6-7	.0	.0	1.5	4.5	7.2	7.0	6.4	4.6	2.5	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	1917	9
8-9	.0	.0	.5	.9	3.1	4.6	6.2	6.1	6.2	3.0	1.5	.8	.6	.0	.0	.0	.0	.0	.0	1843	12
10-11	.0	.0	.0	.2	.5	.6	1.2	1.5	3.1	2.6	1.1	.9	.9	.0	.0	.0	.0	.0	.0	702	16
12-13	.0	.0	.0	.0	.0	.2	.2	.1	.3	.4	.7	.5	.3	.0	.0	.0	.0	.0	.0	152	18
>13	.0	.0	.0	.0	.0	.1	.1	.0	.1	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	40	19
INDEX	.2	.4	1.1	.6	1.1	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	246	6
TOTAL	16	42	369	525	800	751	823	694	681	373	207	135	104	0	0	0	0	0	0	5520	10
PCT	.3	.8	6.7	9.5	14.5	13.6	14.9	12.6	12.3	6.8	3.8	2.4	1.9	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1945-1972

DECEMBER

AREA 0002 DSV BRAVO
56.5N 51.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	3.1	.9	.2	.0	38.6	.3	1.5	43.6	6.9	.1	.7	.1	.2	.0	48.5
NE	13.0	1.6	2.8	.3	30.1	.1	.2	44.6	4.3	.0	1.9	.0	.0	.0	49.3
E	25.6	1.9	7.0	.1	18.6	.8	.2	52.3	5.9	.0	1.5	.0	.6	1.3	38.4
SE	22.0	2.7	5.7	.0	17.6	.2	.1	46.9	4.8	.0	5.3	.0	.0	.8	42.3
S	13.9	1.9	1.7	.0	27.1	.1	.7	43.1	6.0	.0	3.0	.0	.2	.1	47.6
SW	5.6	1.1	.3	.0	39.4	.0	.3	45.6	4.7	.0	1.3	.0	.0	.2	48.2
W	1.3	.7	.3	.0	48.1	.3	1.4	51.8	8.7	.0	.1	.0	.0	.1	39.3
NW	.8	.5	.1	.0	40.8	.2	1.1	42.9	11.2	.0	.0	.0	.0	.0	45.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9	.0	2.9	.0	5.9	.0	.0	11.8	.0	.0	.0	.0	.0	.0	88.2
TOT PCT	7.6	1.1	1.6	*	35.9	.2	.8	46.2	7.4	*	1.2	*	.1	.2	44.9
TOT OBS	5760														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	7.8	1.5	1.4	.0	37.5	.1	.7	47.3	7.6	.0	.8	.0	.1	.4	43.8
06009	8.0	1.1	1.4	.1	36.2	.0	.6	46.1	7.5	.0	.7	.0	.1	.1	45.5
12015	7.6	1.3	1.6	.1	33.8	.4	1.2	44.9	7.5	.0	1.9	.0	.0	.3	45.3
18021	7.2	.8	1.9	.0	36.2	.4	.8	46.4	6.8	.1	1.3	.1	.2	.2	45.0
TOT PCT	7.6	1.1	1.6	*	35.9	.2	.8	46.2	7.4	*	1.2	*	.1	.2	44.9
TOT OBS	5765														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.1	1.5	3.9	4.1	1.7	.3		11.6	23.1	12.2	13.0	11.3	11.5	10.6	11.4	10.3	12.3	
NE	*	1.0	2.5	2.2	1.6	.1		7.4	24.2	7.5	6.7	7.2	7.2	8.1	7.4	8.1	7.2	
E	.1	1.0	2.6	2.9	2.0	.4		9.1	23.4	9.6	9.5	9.0	9.1	9.6	7.6	8.8	9.4	
SE	*	.7	2.5	2.3	1.3	.1		7.1	23.7	7.0	8.6	7.5	6.6	5.9	7.1	6.6	7.4	
S	.1	1.2	3.3	3.1	1.1	.1		8.8	21.6	9.6	8.2	8.0	8.7	8.6	9.2	8.6	9.0	
SW	*	1.5	4.1	5.3	2.1	.3		13.5	23.8	14.0	12.9	12.4	12.8	13.6	14.4	13.8	14.0	
W	.2	1.8	4.5	7.9	3.1	.3		19.7	23.7	18.0	18.2	20.9	21.0	20.6	20.1	19.8	18.8	
NW	.1	1.7	7.4	9.2	3.6	.4		22.4	24.3	21.8	22.6	23.2	22.2	22.5	22.2	23.4	20.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.6							.6	.0	.4	.4	.6	.8	.6	.6	.6	.8	
TOT OBS	70	602	1900	2140	958	115	5785	23.6		724	727	724	724	723	722	721	720	
TOT PCT	1.2	10.4	32.8	37.0	16.6	2.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	.6	3.1	3.7	3.5	.7		11.6	23.1	12.6	11.4	11.0	11.3
NE	.3	1.9	2.3	2.2	.7		7.4	24.2	7.1	7.2	7.7	7.7
E	.4	2.0	3.0	2.9	.9		9.1	25.4	9.5	9.1	8.6	9.1
SE	.2	1.8	2.6	2.0	.5		7.1	23.7	7.8	7.0	6.5	7.0
S	.5	2.5	3.4	1.9	.4		8.8	21.6	8.9	8.4	8.9	8.8
SW	.6	2.9	5.3	3.9	.8		13.5	23.8	13.4	12.6	14.0	13.9
W	.7	4.2	8.1	5.7	1.0		19.7	23.7	18.1	20.9	20.4	19.3
NW	.6	4.5	9.0	7.1	1.1		22.4	24.3	22.2	22.7	22.4	22.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6						.6	.0	.4	.7	.6	.7
TOT OBS	257	1325	2160	1693	350	5785	23.6		1451	1448	1445	1441
TOT PCT	4.4	22.9	37.3	29.3	6.1		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1945-1972

AREA 0002 OSV BRAVN
36.5N 91.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00603	.4	.8	10.5	33.6	34.5	18.5	1.7	23.8	100.0	1451
06609	.7	.5	11.0	32.0	37.8	16.2	1.8	23.5	100.0	1448
12615	.6	.6	10.2	33.6	37.3	15.4	2.4	23.5	100.0	1445
18621	.7	.6	9.9	32.2	38.4	16.2	2.0	23.7	100.0	1441
TOT	34	36	602	1900	2140	958	115	23.6		5785
PCT	.6	.6	10.4	32.8	37.0	16.6	2.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.4	.6	3.4	7.1		7.0
NE	.2	.2	1.4	5.6		7.3
E	.1	.2	1.3	7.5		7.5
SE	.2	.4	1.2	5.3		7.3
S	.3	.3	2.1	6.2		7.2
SW	.7	.5	3.7	8.6		7.0
W	.5	1.2	7.6	10.4		6.9
NW	1.0	1.9	9.6	9.9		6.5
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.2	.2		5.6
TOT OBS	201	299	1760	3517	5777	7.0
TOT PCT	3.5	5.2	30.5	60.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.5	.0	.0	.6	4.3	1.9	.2	.1	.0	.1	1.9	
NE	.5	.0	.1	.9	2.7	1.9	.2	.0	.0	.0	1.1	
E	.3	.0	.2	1.3	3.7	1.8	.1	.0	.0	.0	1.3	
SE	.4	.0	.1	1.0	2.6	1.4	.1	.0	.0	.0	1.3	
S	.4	.0	.2	.9	3.1	2.4	.2	.0	.0	.1	1.4	
SW	.7	.0	.1	.7	5.7	4.0	.1	.1	.0	.1	2.1	
W	.6	.0	.1	.6	8.5	7.2	.1	.0	.0	.0	2.5	
NW	.6	.0	.1	.4	9.2	7.6	.4	.0	.0	.0	4.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.4	
TOT OBS	236	7	33	376	2303	1750	84	14	13	17	929	5777
TOT PCT	4.1	.0	.9	6.5	39.9	30.3	1.5	.2	.2	.3	16.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.3	.5	.5	.5	.5	.5	.5	.5
>5000	.4	.7	.8	.8	.8	.8	.8	.8
>3500	1.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
>2000	12.4	30.6	32.2	32.4	32.5	32.5	32.5	32.5
>1000	18.7	62.0	69.5	71.5	72.2	72.4	72.4	72.4
>600	19.0	64.7	74.6	77.6	78.6	78.8	78.9	78.9
>300	19.1	65.0	75.1	78.3	79.4	79.7	79.8	79.8
>150	19.1	65.0	75.2	78.3	79.4	79.7	79.8	79.8
>0	19.1	65.1	75.8	79.4	81.6	83.2	83.9	83.9
TOTAL	1103	3763	4380	4592	4718	4809	4848	4850

TOTAL NUMBER OF OBS: 5780

PCT FREQ NM <5/8: 16.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL
1.1	1.2	5.2	5.2	3.5	7.4	15.3	11.8	45.3	4.1	5791

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1945-1972

DECEMBER

AREA 0002 OSV BRAVO
56.3N 51.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.4	.2	.2	.1	.3	.3	.3	.0	.0	2.0	
	NO PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.3	
	TOT %	.3	.4	.2	.3	.1	.3	.3	.3	.0	.0	2.3	
1/2<1	PCP	.4	.3	.2	.2	.2	.2	.3	.4	.0	.0	2.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.4	.3	.2	.2	.2	.2	.3	.4	.0	.0	2.3	
1<2	PCP	.5	.3	.5	.3	.3	.4	.5	.6	.0	.0	3.4	
	NO PCP	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.5	.3	.6	.4	.4	.4	.5	.6	.0	.0	3.8	
2<5	PCP	.9	.9	1.5	.9	.9	1.4	1.8	1.8	.0	.0	10.2	
	NO PCP	.1	.1	.2	.1	.1	.1	.2	.1	.0	.0	1.0	
	TOT %	1.0	1.0	1.7	1.0	1.0	1.9	2.0	1.9	.0	.0	11.2	
5<10	PCP	2.6	1.2	2.2	1.7	2.1	3.4	6.2	5.8	.0	.1	25.3	
	NO PCP	3.5	1.9	2.3	1.9	2.2	3.9	5.1	6.8	.0	.0	27.6	
	TOT %	6.2	3.1	4.5	3.5	4.4	7.2	11.3	12.6	.0	.1	52.9	
10+	PCP	.3	.2	.1	.1	.2	.5	1.0	.7	.0	.0	3.1	
	NO PCP	2.9	2.1	1.7	1.5	2.4	3.5	4.1	5.9	.0	.5	24.4	
	TOT %	3.2	2.2	1.8	1.7	2.6	3.8	5.1	6.5	.0	.5	27.5	
TOT OBS													5760
TOT PCT		11.6	7.5	9.1	7.1	8.8	13.9	19.6	22.3	.0	.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.3	
	22+	.3	.4	.2	.2	.1	.2	.3	.2	.0	.0	1.8	
	TOT %	.3	.4	.2	.3	.1	.3	.3	.3	.0	.0	2.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	.5	
	22+	.4	.3	.2	.1	.1	.1	.2	.3	.0	.0	1.6	
	TOT %	.4	.3	.2	.2	.2	.2	.3	.4	.0	.0	2.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.7	
	22+	.4	.3	.5	.3	.2	.3	.4	.5	.0	.0	2.9	
	TOT %	.5	.4	.6	.4	.4	.4	.5	.6	.0	.0	3.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.6	
	11-21	.2	.2	.2	.2	.3	.3	.5	.4	.0	.0	2.2	
	22+	.7	.8	1.4	.8	.7	1.1	1.5	1.5	.0	.0	8.3	
	TOT %	1.0	1.0	1.7	1.0	1.0	1.5	2.0	2.0	.0	.0	11.2	
5<10	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.3	
	4-10	.6	.4	.5	.3	.4	.8	.9	.8	.0	.0	4.8	
	11-21	2.1	1.2	1.7	1.4	1.7	2.3	3.5	3.4	.0	.0	17.1	
	22+	3.4	1.5	2.3	1.9	2.3	4.1	6.8	8.3	.0	.0	30.5	
	TOT %	6.1	3.1	4.5	3.5	4.4	7.2	11.3	12.5	.0	.1	52.8	
10+	0-3	.0	.0	.1	.0	.0	.0	.2	.0	.0	.5	.9	
	4-10	.7	.4	.4	.3	.6	.5	.7	.8	.0	.0	4.4	
	11-21	1.5	1.1	.6	.8	1.2	1.4	2.2	3.3	.0	.0	12.0	
	22+	1.0	.8	.8	.5	.8	1.8	2.1	2.5	.0	.0	10.3	
	TOT %	3.2	2.2	1.8	1.7	2.6	3.8	5.2	6.6	.0	.5	27.6	
TOT OBS													5782
TOT PCT		11.6	7.4	9.1	7.1	8.8	13.5	19.6	22.4	.0	.6	100.0	

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1945-1972

DECEMBER

AREA 0002 OSV BRAVO
56.5N 51.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	4.6	.0	.3	5.5	37.0	30.6	1.7	.6	.3	.2	80.8	19.2	1452
06009	4.1	.0	.8	4.4	36.8	33.1	1.5	.2	.3	.3	83.6	16.4	1448
12015	3.7	.0	1.0	8.1	42.5	28.3	1.6	.2	.1	.2	85.7	14.3	1444
18021	3.8	.1	1.5	8.0	41.2	29.1	1.1	.0	.2	.5	85.5	14.5	1442
TOT	236	2	9	376	2306	1792	84	14	13	17	4853	933	5786
PCT	4.1	.0	.9	6.5	39.9	30.3	1.5	.2	.2	.3	83.9	16.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	2.9	2.1	3.3	11.7	51.0	28.9	1452
06009	1.2	2.3	3.4	11.2	54.9	26.9	1451
12015	2.3	2.6	4.3	10.2	53.5	27.2	1445
18021	2.8	2.2	4.2	11.7	51.7	27.5	1440
TOT	133	133	220	647	3055	1600	5788
PCT	2.3	2.3	3.8	11.2	52.8	27.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL
(GMT)						OBS
00003	4.6	6.4	22.2	59.2	18.6	1451
06009	4.1	5.9	20.6	63.8	15.5	1448
12015	3.7	6.6	22.9	63.5	13.5	1443
18021	3.8	7.0	24.8	61.5	13.8	1438
TOT	236	374	1308	3584	888	5780
PCT	4.1	6.5	22.6	62.0	15.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
45/49	.0	.0	.0	.0	.0	.0	.1	.0	5	.1
40/44	.0	.0	.0	.0	.1	.4	1.8	5.3	436	7.6
35/39	.0	.0	.0	.5	2.8	6.8	8.1	7.9	1500	26.2
30/34	.0	.0	.3	2.3	8.2	11.0	9.5	6.3	2153	37.6
25/29	.0	.0	.1	1.6	4.7	6.6	4.2	2.8	1145	20.0
20/24	.0	.0	.2	.3	1.6	2.4	1.9	.7	416	7.3
15/19	.0	.0	.0	.1	.2	.4	.3	.1	63	1.1
10/14	.0	.0	.0	.0	.0	.0	.1	.0	12	.2
TOTAL	1	0	34	281	1009	1584	1499	1322	5730	100.0
PCT	.0	.0	.6	4.9	17.6	27.6	26.2	23.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.1	.8	2.6	2.0	1.3	.6	.1	.0	.0	.0
2.9	3.0	3.9	3.2	3.4	3.9	2.8	3.0	.0	.1
5.8	2.6	2.0	1.4	2.8	4.5	7.1	11.0	.0	.3
2.2	.7	.3	.2	.9	3.5	6.1	5.8	.0	.1
.5	.1	.0	.1	.3	1.0	2.9	2.3	.0	.0
.0	.0	.0	.0	.1	.1	.6	.2	.0	.0
.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
11.6	7.3	8.9	7.0	8.8	13.6	19.8	22.4	.0	.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	45	42	40	33	23	19	12	32.2	1452
06009	44	42	40	33	23	18	12	32.1	1451
12015	46	43	40	33	23	18	14	32.3	1445
18021	46	43	41	32	23	19	13	32.2	1443
TOT	46	42	40	33	23	19	12	32.2	5791

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	5.8	18.6	27.9	25.6	22.1	79	1432
06009	.0	6.0	17.3	27.4	26.1	23.2	79	1442
12015	.0	6.2	18.3	28.1	24.9	22.5	79	1428
18021	.1	4.0	16.3	27.3	28.0	24.3	80	1434
TOT	1	216	1010	1587	1500	1322	79	5736

DPCEMER

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1945-1972

TABLE 17

AREA 0002 OSV NAAVD
96.5N 51.1W

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	23 28	29 32	33 36	37 40	41 44	43 48	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	8	*	.1
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	3	.0	.1
5	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	11	*	.2
4	.0	.0	.0	.0	.0	.0	.0	.1	.5	.0	36	.1	.5
3	.0	.0	.0	.0	.0	.0	.0	.3	.8	*	65	.1	1.0
2	.0	.0	.0	.0	.0	.0	*	.7	1.8	*	143	.3	2.2
1	.0	.0	.0	.0	.0	.0	.1	2.7	.8	.0	209	.2	3.5
0	.0	.0	.0	.0	.0	*	.2	3.1	.2	.0	205	.1	3.5
-1	.0	.0	.0	.0	.0	.0	.6	3.8	.1	.0	260	.1	4.4
-2	.0	.0	.0	.0	*	.0	1.7	2.9	.1	.0	271	.1	4.6
-3	.0	.0	.0	.0	*	.1	3.6	1.9	.1	.0	326	*	5.6
-4	.0	.0	.0	.0	.0	.4	5.0	.4	*	.0	334	*	5.8
-5	.0	.0	.0	.0	*	1.0	6.9	.3	.0	.0	475	.1	8.2
-6	.0	.0	.0	.0	*	2.9	5.3	.2	.0	.0	485	.1	8.4
-7/-8	.0	.0	.0	*	.6	11.1	3.7	.4	.0	.0	909	.0	15.8
-9/-10	.0	.0	.0	*	2.3	8.4	.9	.1	.0	.0	673	.0	11.7
-11/-13	.0	.0	*	1.0	8.2	2.8	.6	.0	.0	.0	724	*	12.5
-14/-16	.0	.0	*	3.9	2.8	.3	.0	.0	.0	.0	407	.0	7.1
-17/-19	.0	.0	1.1	1.6	.1	*	.0	.0	.0	.0	163	.0	2.8
-20/-22	.0	.1	.5	.0	.0	.0	.0	.0	.0	.0	34	.0	.6
-23/-25	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	8	.0	.1
-26/-30	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.1
TOTAL	3	17	95	375	1559	974	5	5757	100.0	1.2	98.8		
PCT	.1	.3	1.7	6.5	14.1	27.1	28.6	16.9	4.7	.1			

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.0	.0	.0	.0	.3	.0	.1	*	.0	.0	.0	.2
1-2	.0	.1	.1	.0	.0	.0	.2	.0	.1	.4	.0	.0	.0	.5
3-4	.0	.2	.8	.1	.0	.0	1.1	.0	.3	.7	.1	.0	.0	1.1
5-6	.0	.0	1.0	.2	.0	.0	1.2	.0	*	.4	.4	*	.0	.8
7	.0	.1	.8	.3	.0	.0	1.2	.0	.0	.2	.4	.1	.0	.7
8-9	.0	.0	.6	1.0	.1	.0	1.7	.0	.0	.3	.4	.1	.0	.9
10-11	.0	.1	.3	1.0	.3	.0	1.6	.0	*	.1	.3	.1	.0	.5
12	.0	.0	.3	.5	.2	.0	1.0	.0	.0	.1	.1	.2	.0	.3
13-16	.0	*	.3	.7	.4	.0	1.5	.0	*	.1	.3	.3	*	.8
17-19	.0	*	.0	.4	.2	.0	.5	.0	*	*	.1	.6	.0	.7
20-22	.0	.0	.0	.1	.5	.1	.7	.0	.0	.0	*	.4	.0	.5
23-25	.0	.0	.0	.0	.2	.2	.4	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	*	.1	.1	.0	.0	.0	.0	*	.1	.2
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TNT PCT	.0	.8	4.2	4.2	2.0	.4	11.6	.0	.6	2.4	2.0	2.1	.2	7.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.2	.0	.0	.0	.0	.3	.1	.2	.1	.0	.0	.0	.3
1-2	.0	.2	.1	.0	.0	.0	.3	.0	.2	.3	.0	.0	.0	.5
3-4	.0	.1	.5	*	.0	.0	.6	.0	*	.7	.1	.0	.0	.8
5-6	.0	.1	.5	.3	.1	.0	1.0	.0	.0	.4	.2	.0	.0	.6
7	.0	*	.1	.5	*	.0	.7	.0	*	.6	.1	*	.0	.8
8-9	.0	.2	.3	.2	.0	.0	.8	.0	*	.2	.4	.1	.0	.7
10-11	.0	.1	.2	.4	.1	.0	.8	.0	.0	.1	.6	.1	*	.9
12	.0	*	*	.6	.5	.0	1.1	.0	*	*	.3	.3	.0	.7
13-16	.0	.0	.1	.5	.5	.0	1.2	.0	.0	.1	.5	.5	.1	1.2
17-19	.0	*	.1	.2	.4	.1	.9	.0	.0	.2	.3	.0	.0	.5
20-22	.0	.0	*	*	.2	.1	.4	.0	.0	.0	.1	.4	.0	.5
23-25	.0	.0	.0	.0	.5	*	.6	.0	.0	.0	.0	.2	.0	.2
26-32	.0	.0	.0	.0	.2	.2	.4	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TNT PCT	.1	.8	1.9	3.0	2.8	.5	9.0	.1	.3	2.4	2.6	1.9	.1	7.6

PERIOD: (OVER-ALL) 1963-1972

DECEMBER
TABLE 18 (CONT)AREA 0002 OSV BRAVO
56.3N 51.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.1	.2	*	.0	.0	.0	.3	.1	.3	*	.0	.0	.0	.5	
1-2	.0	.3	.3	.0	.0	.0	.6	.0	.3	.1	.0	.0	.0	.4	
3-4	.0	.3	.7	.1	.0	.0	1.0	.0	.4	.3	.1	.0	.0	.7	
5-6	.0	*	.5	.1	.0	.0	.7	.0	.1	.8	.7	.0	.0	1.6	
7	.0	.1	.5	.9	.0	.0	1.5	.0	.2	.7	.7	.0	.0	1.6	
8-9	.0	.1	.3	.5	*	.0	1.0	.0	.1	.4	.7	.1	.0	1.3	
10-11	.0	*	.2	.5	.1	.0	.8	.0	.1	.2	.4	.1	.0	.7	
12	.0	.1	.1	.4	.2	.0	.9	.0	*	.2	.8	.2	.0	1.3	
13-16	.0	*	.1	.8	.3	*	1.3	.0	.0	.3	.9	.4	*	1.6	
17-19	.0	.0	*	.2	.4	*	.6	.0	.0	*	.4	.5	*	.9	
20-22	.0	.0	.0	.2	.1	.0	.2	.0	.0	.0	.1	.5	*	.6	
23-25	.0	.0	.0	.0	.1	*	.2	.0	.0	.0	*	.1	*	.2	
26-32	.0	.0	.0	.0	*	*	.1	.0	.0	.0	.0	.1	*	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.0	2.9	3.8	1.2	.1	9.2	.1	1.5	3.1	4.8	1.8	.2	11.5	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.2	.0	.0	.0	.0	.4	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	.3	.3	.0	.0	.0	.5	*	.2	.1	.0	.0	.0	.3	
3-4	.0	.3	1.0	.1	.0	.0	1.4	.0	.3	.8	.1	.0	.0	1.1	
5-6	.1	.3	1.0	.2	.0	.0	1.5	*	.2	1.6	.2	.0	.0	2.0	
7	.0	.3	1.1	.8	.1	.0	2.3	.0	.2	1.7	.6	.1	.0	2.4	
8-9	*	.1	.9	1.1	.1	.0	2.2	.0	.1	1.6	1.3	.1	.0	3.1	
10-11	.0	*	.8	1.1	*	*	2.0	.0	.2	1.1	1.8	.4	.0	3.5	
12	.0	.0	.4	1.1	.2	.0	1.8	.0	.1	.5	1.7	.8	.0	3.1	
13-16	.0	.0	.3	1.4	1.1	.0	2.8	.0	.0	.6	2.9	1.3	*	4.9	
17-19	.0	.0	.0	.5	.6	.0	1.1	.0	.0	.0	1.3	.7	.2	2.2	
20-22	.0	.0	.0	.3	.7	.2	1.2	.0	.0	*	.2	.9	.3	1.5	
23-25	.0	.0	.0	.0	.3	*	.3	.0	.0	.0	.1	.7	*	.8	
26-32	.0	.0	.0	*	.3	*	.3	.0	.0	.0	.1	*	.1	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.4	5.7	6.7	3.4	.3	17.8	.1	1.4	8.1	10.3	5.0	.6	25.3	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.8	1.8	.2	.0	.0	.0	2.8	
1-2	.4	1.6	1.8	.0	.0	.0	3.4	
3-4	.3	1.8	5.3	.7	.0	.0	8.1	
5-6	.2	.7	6.3	7.4	.1	.0	9.6	
7	*	.8	5.8	4.3	.4	.0	11.3	
8-9	.1	.5	4.5	4.8	.8	.0	11.6	
10-11	.0	.5	3.0	6.2	1.2	.1	10.9	
12	.0	.3	1.7	5.6	2.6	.0	10.2	
13-16	.0	.1	1.9	8.0	5.0	.3	15.2	
17-19	.0	.1	.2	3.0	3.7	.4	7.4	
20-22	.0	.0	.1	1.0	3.7	.7	5.5	
23-25	.0	.0	.0	.1	2.3	.3	2.7	
26-32	.0	.0	.0	.1	.6	.6	1.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	8.1	30.7	37.2	20.3	2.4	100.0	2382

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	*	.4	2.2	1.7	2.1	1.1	.6	.4	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	473
6-7	.0	.1	1.4	3.2	6.6	6.9	5.9	2.6	2.4	.6	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	1663
8-9	*	.0	.3	1.0	3.1	3.8	7.6	7.0	7.5	3.0	1.4	.7	.3	.0	.0	.0	.0	.0	.0	.0	2012
10-11	.0	.0	.1	.1	.7	.7	1.7	2.3	4.2	3.1	2.2	.7	.6	.0	.0	.0	.0	.0	.0	.0	911
12-13	.0	.0	.0	*	.1	.1	*	.1	.5	.7	.7	.8	.8	.0	.0	.0	.0	.0	.0	.0	214
>13	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.1	*	.6	.0	.0	.0	.0	.0	.0	.0	42
INDET	.2	.2	.4	.8	1.1	.8	.4	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	255
TOTAL	11	40	240	382	762	749	899	714	830	416	255	126	146	0	0	0	0	0	0	0	5570
PCT	.2	.7	4.3	6.9	13.7	13.4	16.1	12.8	14.9	7.5	4.6	2.3	2.6	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1945-1972

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AREA 0002 OSV BRAVN
56.5N 51.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	9.4	2.8	2.2	* 18.3	.1	.4	.4	32.2	5.7	* 2.6	.2	.1	.1	.1	59.0
NE	18.9	2.4	4.2	* 12.5	.2	.1	.1	36.7	4.1	* 6.0	.2	.1	.1	.1	52.8
E	25.9	2.1	6.2	* 8.4	.1	.1	.1	41.1	4.1	* 9.5	.3	.2	.1	.3	44.6
SE	23.2	2.2	5.6	* 9.0	.1	.1	.1	38.8	3.7	* 10.9	.3	.1	.1	.1	46.1
S	14.1	1.5	3.5	* 12.9	.1	.1	.1	41.3	4.4	* 9.9	.3	.1	.1	.1	53.9
SW	6.3	1.9	2.0	.0 19.5	.1	.2	.2	29.4	4.8	* 5.5	.2	.1	.1	.1	59.9
W	3.5	2.3	1.6	* 24.4	.1	.6	.6	32.1	7.6	* 2.6	.2	.1	.1	.1	57.4
NW	3.4	2.8	1.2	* 24.3	.2	.7	.7	31.9	7.6	* 1.6	.1	.1	.1	.1	58.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.7	.6	3.1	.0 7.6	.0	.0	.0	19.7	3.5	.0 8.1	.8	.1	.0	.0	71.8
TOT PCT	11.0	2.2	2.9	* 17.8	.1	.4	.4	33.5	5.6	* 5.9	.2	.1	.1	.1	54.5
TOT OBS: 68716															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	11.7	2.3	3.3	* 18.2	.1	.4	.4	34.9	5.3	* 5.4	.2	.1	.1	.1	53.9
06009	12.1	2.3	3.4	* 17.7	.1	.3	.3	34.9	5.5	* 5.4	.2	.1	.1	.1	53.9
12015	10.3	2.1	2.5	* 17.4	.1	.5	.5	32.1	6.3	* 6.5	.3	.2	.1	.1	54.4
18021	9.8	2.3	2.5	* 17.9	.2	.4	.4	32.1	5.3	* 6.3	.3	.1	.1	.1	53.8
TOT PCT	11.0	2.2	2.9	* 17.8	.1	.4	.4	33.5	5.6	* 5.9	.2	.1	.1	.1	54.5
TOT OBS: 68803															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	2.3	4.5	3.4	1.2	.1		11.7	19.4		11.7	11.5	11.6	12.4	11.8	11.6	11.4	11.7
NE	.2	1.7	3.3	2.6	1.0	.1		8.9	19.9		9.0	8.4	8.7	9.1	9.5	8.8	8.7	9.0
E	.2	1.9	3.7	2.8	1.3	.2		10.1	20.8		10.0	10.2	9.9	10.0	10.2	10.1	10.2	10.2
SE	.2	2.0	4.0	2.5	.8	.1		9.5	19.6		9.8	9.7	9.0	9.6	9.4	9.8	9.0	9.3
S	.2	2.2	3.4	3.2	.7	.1		11.8	19.1		11.4	11.7	12.0	11.3	12.1	12.3	12.1	11.4
SW	.2	2.4	4.1	3.2	.8	.1		11.9	18.6		12.0	12.1	11.7	11.6	11.6	12.1	12.1	11.9
W	.2	2.7	5.3	5.2	1.6	.2		16.3	19.8		16.2	16.2	17.0	16.0	15.7	16.0	16.9	16.2
NW	.2	2.7	6.9	6.3	2.3	.2		18.7	20.9		18.7	18.8	18.8	18.8	18.5	18.1	18.7	19.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0		1.1	1.4	1.3	1.2	1.2	1.0	1.0	1.1
TOT OBS							69046		19.8		8656	8660	8624	8612	8589	8627	8630	8648
TOT PCT	2.8	17.9	34.9	29.7	9.7	1.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00					06	12	18		
										03	09	15	21	
N	1.0	4.0	4.0	2.3	.4		11.7	19.4	11.6	12.0	11.7	11.9		
NE	.8	2.9	2.9	1.8	.4		8.9	19.9	8.7	8.9	9.1	8.9		
E	.9	3.3	3.2	2.2	.5		10.1	20.8	10.1	10.0	10.1	10.2		
SE	.9	3.5	3.3	1.5	.3		9.5	19.6	9.8	9.3	9.6	9.2		
S	1.0	4.4	4.5	1.6	.2		11.8	19.1	11.6	11.6	12.2	11.8		
SW	1.0	4.4	4.3	1.9	.3		11.9	18.6	12.0	11.6	11.9	12.0		
W	1.2	5.1	6.0	3.4	.6		16.3	19.8	16.2	16.5	15.9	16.5		
NW	1.1	5.5	6.9	4.5	.8		18.7	20.9	18.8	18.8	18.3	18.8		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	1.2						1.2	.0	1.2	1.2	1.1	1.0		
TOT OBS						69046		19.8	17316	17296	17216	17278		
TOT PCT	9.0	33.2	45.1	19.2	3.4		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1945-1972

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AREA 0002 DSV BRAVO
56.5N 51.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.2	1.7	18.7	39.3	28.2	9.7	1.2	19.6	100.0	17316
06009	1.2	1.7	18.0	39.4	28.9	9.7	1.1	19.7	100.0	17236
12015	1.1	1.7	17.4	39.1	29.7	9.8	1.2	19.9	100.0	17216
18021	1.0	1.4	17.5	39.5	29.8	9.6	1.2	19.9	100.0	17278
TOT								19.8		69046
PCT	1.2	1.6	17.9	39.3	29.2	9.7	1.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.5	3.2	7.5		7.0
NE	.4	.3	1.6	6.6		7.3
E	.2	.2	1.4	8.3		7.5
SE	.3	.2	1.4	7.5		7.4
S	.8	.4	2.4	8.2		7.1
SW	1.1	.6	3.4	6.8		6.6
W	1.1	1.0	6.1	8.0		6.6
NW	.9	1.2	7.1	9.4		6.7
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.3	.7		6.4
TOT OBS					68998	7.0
TOT PCT	5.5	4.5	26.9	63.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.4	.	.3	1.0	4.3	3.5	.2	.	.1	.1	1.9	
.5	.	.4	1.1	3.2	1.8	.2	.	.	.	1.4	
.9	.1	.8	1.5	3.4	1.8	.2	.	.1	.1	1.3	
1.2	.1	.6	1.2	2.7	1.5	.2	.1	.1	.2	1.7	
1.3	.	.6	1.1	3.1	2.1	.2	.1	.2	.4	2.7	
.6	.	.3	.7	3.8	2.7	.2	.1	.1	.3	3.1	
.4	.	.3	.8	6.3	4.7	.3	.1	.1	.1	3.3	
.4	.	.2	.9	7.5	5.9	.3	.	.	.	3.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.	.1	.1	.3	.2	.	.	.	.	.3	
5.6	.7	3.5	8.4	34.7	24.2	1.9	.5	.7	1.3	19.0	68958 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9
= OR >5000	1.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5
= OR >3500	2.5	4.2	4.3	4.3	4.3	4.3	4.3	4.3
= OR >2000	13.7	27.4	28.3	28.5	28.6	28.6	28.6	28.6
= OR >1000	23.4	57.0	61.6	62.6	63.1	63.2	63.2	63.2
= OR >600	24.3	61.9	68.8	70.6	71.4	71.6	71.6	71.6
= OR >300	24.4	63.2	71.3	73.6	74.8	75.1	75.2	75.2
= OR >150	24.4	63.2	71.3	73.8	74.9	75.3	75.4	75.4
= OR >0	24.4	63.3	71.6	74.4	76.7	78.6	80.7	81.0

TOTAL NUMBER OF OBS: 69037

PCT FREQ NM <5/8: 19.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.5	2.7	5.5	4.3	3.0	6.0	13.0	11.0	45.5	5.6	69108

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1945-1972

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56.5N 51.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.2	.2	.3	.2	.2	.2	.2	.0	*	1.6	
	NO PCP	.1	.2	.4	.7	.8	.3	.2	.1	.0	.1	2.8	
	TOT %	.2	.3	.7	.9	1.0	.5	.4	.3	.0	.1	4.4	
1/2<1	PCP	.2	.2	.3	.2	.2	.2	.2	.2	.0	*	1.6	
	NO PCP	.1	.1	.1	.2	.2	.1	*	*	.0	*	.8	
	TOT %	.2	.2	.4	.4	.4	.2	.2	.3	.0	*	2.4	
1<2	PCP	.2	.3	.4	.3	.3	.2	.3	.3	.0	*	2.2	
	NO PCP	*	.1	.1	.1	.2	*	*	*	.0	*	.7	
	TOT %	.3	.3	.5	.5	.4	.2	.3	.3	.0	*	2.9	
2<5	PCP	.7	.8	1.1	.9	.8	.8	1.0	1.0	.0	*	7.1	
	NO PCP	.1	.2	.3	.3	.3	.2	.1	.1	.0	*	1.6	
	TOT %	.8	.9	1.4	1.2	1.1	.8	1.2	1.2	.0	*	8.7	
5<10	PCP	2.3	1.7	1.9	1.5	1.7	2.0	3.3	3.8	.0	.1	18.3	
	NO PCP	3.4	2.5	2.6	2.1	3.0	3.2	4.5	5.2	.0	.3	28.8	
	TOT %	5.6	4.2	4.5	3.7	4.8	5.1	7.7	9.0	.0	.3	45.1	
10+	PCP	.4	.2	.2	.2	.2	.3	.6	.7	.0	*	2.7	
	NO PCP	4.2	2.7	2.4	2.7	3.9	4.5	5.9	6.9	.0	.6	33.8	
	TOT %	4.5	2.8	2.6	2.8	4.1	4.8	6.5	7.6	.0	.6	36.5	
TOT OBS													68742
TOT PCT													11.7 8.9 10.1 9.5 11.8 11.9 16.3 18.7 .0 1.2 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	*	*	*	*	*	.0	.1	.2	
	4-10	.1	.1	.2	.2	.2	.2	.1	.1	.0		1.2	
	11-21	.1	.1	.3	.5	.6	.2	.1	.1	.0		1.9	
	22+	.1	.1	.2	.2	.2	.1	.1	.1	.0		1.2	
	TOT %	.2	.3	.7	.9	1.0	.5	.4	.3	.0	.1	4.4	
1/2<1	0-3	.0	*	*	*	*	*	*	*	.0	*	*	
	4-10	*	*	.1	.1	*	*	*	*	.0		.4	
	11-21	*	.1	.1	.2	.2	.1	.1	.1	.0		.8	
	22+	.1	.1	.2	.2	.2	.1	.1	.2	.0		1.2	
	TOT %	.2	.2	.4	.4	.4	.2	.2	.3	.0	*	2.4	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	*	
	4-10	*	*	*	*	.1	*	*	*	.0		.3	
	11-21	.1	.1	.2	.2	.2	.1	.1	.1	.0		.8	
	22+	.2	.2	.3	.3	.2	.1	.2	.2	.0		1.7	
	TOT %	.3	.3	.5	.5	.4	.2	.3	.3	.0	*	2.9	
2<5	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0		.8	
	11-21	.2	.2	.4	.4	.4	.3	.3	.3	.0		2.5	
	22+	.5	.6	.9	.6	.6	.5	.7	.8	.0		5.2	
	TOT %	.8	.9	1.4	1.2	1.1	.9	1.2	1.2	.0	*	8.7	
5<10	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.3	.9	
	4-10	.9	.7	.7	.6	.7	.8	.9	1.0	.0		6.4	
	11-21	2.1	1.5	1.6	1.5	2.1	2.1	2.8	2.9	.0		16.5	
	22+	2.6	2.0	2.1	1.5	1.9	2.2	3.9	5.0	.0		21.1	
	TOT %	5.6	4.2	4.5	3.7	4.8	5.1	7.7	9.0	.0	.3	43.0	
10+	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.6	1.4	
	4-10	1.1	.8	.8	.8	1.0	1.2	1.5	1.6	.0		8.8	
	11-21	2.1	1.3	1.1	1.3	2.1	2.4	3.0	3.6	.0		16.8	
	22+	1.2	.7	.6	.6	1.0	1.2	1.9	2.4	.0		9.6	
	TOT %	4.6	2.8	2.6	2.8	4.2	4.9	6.5	7.7	.0	.6	36.6	
TOT OBS													69010
TOT PCT													11.7 8.9 10.1 9.5 11.8 11.9 16.3 18.7 .0 1.2 100.0

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1945-1972

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	5.8	.2	3.1	7.8	33.8	24.2	1.6	.7	.8	1.3	79.3	20.7	17326
06009	5.5	.1	3.0	7.7	34.5	26.2	1.8	.5	.7	1.4	81.5	18.5	17247
12015	5.5	.4	4.2	9.2	34.9	23.6	2.0	.5	.6	1.1	82.1	17.9	17221
18021	5.7	.2	3.8	8.8	35.3	23.0	2.0	.5	.6	1.3	81.3	18.7	17285
TOT													69079
PCT	5.6	.2	3.5	8.4	34.6	24.3	1.9	.5	.6	1.3	81.0	19.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	4.7	2.2	2.6	8.6	46.4	35.5	17334
06009	4.2	2.0	2.5	9.1	47.5	34.7	17256
12015	4.1	3.0	3.2	8.4	43.5	37.8	17236
18021	4.6	2.5	3.2	8.5	42.6	38.5	17295
TOT							69121
PCT	4.4	2.4	2.9	8.7	45.0	36.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	5.8	10.2	23.8	56.0	20.1	17312
06009	5.5	9.6	23.7	58.3	18.0	17240
12015	5.6	11.5	25.7	57.1	17.3	17213
18021	5.7	11.1	25.3	56.5	18.2	17272
TOT						69037
PCT	5.7	10.6	24.6	57.0	18.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/39	.0	.0	.0	.0	.0	*	*	.0	*	
50/34	*	.0	.0	*	.1	.3	1.7	1.7	3.7	
45/49	*	.0	*	*	.4	2.4	5.5	10.0	18.4	
40/44	*	*	*	.2	1.5	3.6	6.5	10.0	21.7	
35/39	.0	.0	*	.7	2.8	6.0	7.6	9.3	26.4	
30/34	.0	*	.1	.8	3.3	4.5	4.2	3.0	15.9	
25/29	*	*	.5	1.9	2.9	1.8	1.3	1.3	8.4	
20/24	.0	.0	.1	.2	.7	1.3	1.1	.4	3.8	
15/19	.0	.0	*	.1	.2	.4	.5	.2	1.3	
10/14	.0	.0	.0	*	.1	.1	.1	.1	.3	
5/9	.0	.0	.0	*	.0	*	*	*	.1	
0/4	.0	.0	.0	.0	.0	.0	.0	*	*	
TOTAL									68443	100.0
PCT	*	*	.2	2.5	10.7	21.5	29.0	36.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/39	.0	.0	*	*	*	*	*	.0	.0	*
50/34	.1	.2	.4	.7	1.0	.7	.4	.2	.0	.1
45/49	1.5	1.4	1.9	2.7	3.4	2.4	2.5	2.4	.0	.3
40/44	2.2	2.1	3.1	2.8	2.8	2.3	2.8	3.3	.0	.3
35/39	3.7	3.3	3.7	2.6	2.7	2.6	3.3	4.4	.0	.2
30/34	2.9	1.4	.8	.7	1.2	1.8	2.7	4.3	.0	.1
25/29	1.1	.4	.2	.2	.5	1.2	2.2	2.5	.0	*
20/24	.2	.1	*	*	.2	.7	1.4	1.1	.0	*
15/19	*	*	*	*	.1	.3	.6	.3	.0	*
10/14	*	.0	.0	.0	*	.1	.2	*	.0	*
5/9	*	.0	.0	.0	*	*	*	*	.0	.0
0/4	*	.0	.0	.0	*	*	*	*	.0	.0
TOTAL										
PCT	11.7	8.9	10.1	9.5	11.8	11.9	16.3	18.7	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	55	45	44	38	31	27	5	37.7	17340
06009	54	45	44	38	31	27	6	37.6	17260
12015	58	46	44	39	31	27	4	38.1	17237
18021	56	46	44	38	31	28	6	38.3	17301
TOT	58	45	44	38	31	27	4	37.9	69138

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	*	2.8	10.6	21.0	28.3	37.2	84	17177
06009	.0	2.6	10.4	20.9	27.8	38.3	84	17135
12015	*	3.0	11.0	21.8	29.6	34.6	83	17071
18021	*	2.5	11.0	22.2	30.4	34.0	83	17163
TOT	4	1890	7360	14688	19883	24721	83	68546

PERIOD: (PRIMARY) 1952-1972
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TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

ATR-SEA TMP DIF	01 04	03 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT FOG	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	*
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	145	.0	.2
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	222	.0	.3
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2	.2	.2	.2	504	.1	.6
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	.5	.5	.5	.5	1103	.2	1.4
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.0	.8	.7	.7	.7	2251	.5	2.8
2	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.5	1.8	1.7	1.3	1.3	1.3	4357	.9	5.4
1	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.0	2.6	2.7	1.5	1.5	1.5	6814	1.3	8.6
0	.0	.0	.0	.0	.0	.0	.0	.0	.5	3.7	2.4	3.2	1.1	1.1	1.1	7436	1.1	9.7
-1	.0	.0	.0	.0	.0	.0	.0	.0	1.1	3.9	2.1	2.8	.5	.5	.5	7210	.7	9.8
-2	.0	.0	.0	.0	.0	.0	.0	.0	2.3	2.7	1.7	1.9	.2	.2	.2	6052	.4	8.4
-3	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.2	2.1	1.5	1.1	1.1	1.1	3578	.3	7.8
-4	.0	.0	.0	.0	.0	.0	.0	.0	.4	3.0	1.5	1.2	.4	.4	.4	4465	.2	6.3
-5	.0	.0	.0	.0	.0	.0	.0	.0	1.0	2.6	1.2	.7	.1	.1	.1	3947	.1	5.7
-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.0	1.6	.9	.3	.3	.3	3352	.0	4.8
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.6	4.0	1.7	.8	.1	.1	.1	5005	.0	7.3
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	2.0	2.1	.5	.2	.1	.1	.1	3359	.0	4.9
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.5	3.1	.5	.2	.1	.1	.1	3099	.0	4.5
-14/-16	.0	.0	.0	.0	.2	1.9	.5	.1	.0	.0	.0	.0	.0	.0	.0	1853	.0	2.7
-17/-19	.0	.0	.0	.0	.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1098	.0	1.6
-20/-22	.0	.0	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	437	.0	.7
-23/-25	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	188	.0	.3
-26/-30	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	110	.0	.2
<-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	*
TOTAL																68631		
PCT	*	*	.2	.5	1.6	7.2	6.3	10.3	17.1	22.4	16.2	15.7	6.2	.3	*	100.0	5.9	94.1

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.4	.0	.0	.0	.0	.4	.1	.3	.0	.0	.0	.0	.4
1-2	.0	.5	.2	.0	.0	.0	.8	.0	.4	.3	.0	.0	.0	.8
3-4	.0	.5	1.1	.1	.0	.0	1.7	.0	.3	.9	.1	.0	.0	1.3
5-6	.0	.2	1.0	.2	.0	.0	1.4	.0	.1	.6	.2	.0	.0	.9
7	.0	.2	.9	.5	.0	.0	1.6	.0	.1	.6	.4	.0	.0	1.2
8-9	.0	.1	.6	.6	.0	.0	1.3	.0	.0	.4	.4	.0	.0	.9
10-11	.0	.0	.4	.8	.1	.0	1.3	.0	.0	.3	.5	.1	.0	.9
12	.0	.0	.2	.6	.1	.0	.8	.0	.0	.1	.5	.1	.0	.7
13-16	.0	.0	.1	.5	.2	.0	.8	.0	.0	.1	.5	.3	.0	.9
17-19	.0	.0	.0	.2	.3	.0	.6	.0	.0	.0	.2	.3	.0	.5
20-22	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.1	.2	.0	.3
23-25	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.9	4.5	3.5	1.0	.1	11.1	.1	1.3	3.3	2.8	1.1	.1	8.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.4	.0	.0	.0	.0	.5	.1	.4	.0	.0	.0	.0	.5
1-2	.0	.5	.3	.0	.0	.0	.8	.0	.6	.4	.0	.0	.0	1.0
3-4	.0	.4	.8	.1	.0	.0	1.2	.0	.4	1.1	.1	.0	.0	1.6
5-6	.0	.2	.7	.2	.0	.0	1.1	.0	.1	.9	.2	.0	.0	1.2
7	.0	.1	.8	.4	.0	.0	1.3	.0	.1	.9	.5	.0	.0	1.5
8-9	.0	.0	.4	.5	.0	.0	1.0	.0	.0	.4	.5	.0	.0	1.0
10-11	.0	.0	.3	.5	.1	.0	.9	.0	.0	.2	.6	.1	.0	.9
12	.0	.0	.1	.3	.2	.0	.6	.0	.0	.1	.3	.1	.0	.5
13-16	.0	.0	.1	.6	.3	.0	1.0	.0	.0	.0	.4	.3	.0	.7
17-19	.0	.0	.0	.2	.4	.0	.6	.0	.0	.0	.1	.2	.0	.3
20-22	.0	.0	.0	.1	.3	.0	.4	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.6	3.5	2.9	1.5	.2	9.8	.1	1.7	4.1	2.8	1.0	.1	9.7

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)AREA 0002 DSV BRAVO
56.5N 51.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	*	.0	.0	.0	.6	.1	.5	*	.0	.0	.0	.6
1-2	*	.6	.4	.0	.0	.0	1.1	*	.7	.3	.0	.0	.0	1.0
3-4	*	.6	1.4	.1	.0	.0	2.1	*	.6	1.2	.1	.0	.0	1.9
5-6	.0	.1	1.4	.3	*	.0	1.8	*	.2	1.3	.3	.0	.0	1.8
7	*	.1	1.2	.7	*	.0	2.0	*	.2	1.1	.5	*	.0	1.8
8-9	.0	.1	.6	.7	*	.0	1.4	*	.1	.6	.4	*	.0	1.2
10-11	*	*	.3	.7	.1	.0	1.1	*	*	.5	.6	*	.0	1.2
12	.0	*	.2	.5	.1	.0	.7	.0	*	.2	.5	.1	.0	.8
13-16	.0	*	.1	.5	.2	*	.8	.0	*	.1	.6	.2	*	.9
17-19	.0	*	*	.2	.2	*	.3	.0	.0	*	.1	.2	*	.4
20-22	.0	.0	*	.1	*	*	.2	.0	.0	*	*	.2	*	.2
23-25	.0	.0	.0	*	*	*	.1	.0	.0	.0	*	.1	*	.1
26-32	.0	.0	.0	.0	*	*	*	.0	.0	.0	*	*	*	.1
33-40	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	*	*	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.1	5.6	3.6	.8	.1	12.3	.2	2.3	5.4	3.2	.8	.1	11.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.5	*	.0	.0	.0	.7	.1	.4	*	.0	.0	.0	.5	
1-2	*	.6	.2	.0	.0	.0	.9	*	.7	.3	.0	.0	.0	1.1	
3-4	*	.6	1.3	.1	.0	.0	2.0	*	.8	1.4	.1	.0	.0	2.3	
5-6	*	.3	1.4	.2	.0	.0	2.0	*	.3	1.6	.2	*	.0	2.2	
7	*	.2	1.4	.6	*	.0	2.2	*	.2	2.0	.7	*	.0	3.0	
8-9	*	.1	.8	.8	*	.0	1.7	.0	.1	.9	.9	*	.0	1.9	
10-11	*	*	.6	1.0	*	.0	1.3	*	.1	.7	1.1	.1	*	2.0	
12	.0	*	.3	.8	.1	.0	1.3	.0	*	.3	1.2	.2	.0	1.8	
13-16	.0	.0	.2	1.0	.3	*	1.6	.0	.0	.2	1.3	.6	*	2.3	
17-19	.0	.0	*	.4	.3	*	.8	.0	.0	*	.5	.5	*	1.1	
20-22	.0	.0	.0	.2	.3	*	.5	.0	*	*	.2	.4	*	.6	
23-25	.0	.0	.0	*	.2	.1	.3	.0	.0	.0	.1	.2	*	.3	
26-32	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	*	.1	.1	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.5	6.2	5.1	1.5	.2	15.7	.1	2.8	7.5	6.5	2.1	.2	19.2	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	1.9	3.4	.1	.0	.0	.0	5.4	
1-2	.2	4.8	2.5	.0	.0	.0	7.5	
3-4	.2	4.3	9.1	.6	.0	.0	14.2	
5-6	.1	1.6	9.0	1.8	*	.0	12.4	
7	.1	1.2	9.0	4.2	.1	.0	14.6	
8-9	*	.5	4.7	4.8	.2	.0	10.3	
10-11	*	.2	3.3	5.7	.5	*	9.9	
12	*	.1	1.4	4.8	1.0	.0	7.3	
13-16	*	*	.9	5.6	2.4	.1	9.0	
17-19	.0	*	.1	2.0	2.4	.1	4.6	
20-22	.0	*	*	.6	1.8	.3	2.7	
23-25	.0	.0	*	.2	.8	.2	1.2	
26-32	.0	.0	.0	*	.4	.3	.8	
33-40	.0	.0	.0	*	.1	*	.1	
41-48	.0	.0	.0	.0	*	*	*	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.5	16.2	40.1	30.4	9.8	1.1	100.0	25746

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.1	1.5	5.7	4.6	3.3	1.0	.5	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	11148	5
6-7	*	.4	3.1	5.4	8.7	6.5	5.2	2.7	1.9	.5	.2	.1	*	.0	.0	.0	.0	.0	.0	22819	8
8-9	*	.1	.6	1.2	3.7	4.0	5.6	4.7	5.1	2.2	1.1	.5	.3	*	.0	.0	.0	.0	.0	19213	11
10-11	.0	*	.1	.2	.7	.8	1.2	1.3	2.2	1.8	1.2	.7	.6	*	.0	.0	.0	.0	.0	7090	15
12-13	.0	.0	*	*	.1	.1	.1	.1	.3	.3	.4	.3	.4	*	*	.0	.0	.0	.0	1509	19
>13	.0	.0	.0	*	*	*	*	*	.1	.1	.1	.2	.2	*	.0	.0	.0	.0	.0	295	22
INDEX	.4	.6	1.7	1.0	.9	.5	.3	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	3783	5
TOTAL																				65857	9
PCT	.5	2.6	11.3	12.5	17.4	12.9	13.0	9.1	9.7	5.0	3.0	1.6	1.5	*	*	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1945-1972

AREA 0002 OSV PRAVO
50.5N 51.0W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH														
SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
53/54	.0	.0	.0	.0	.0	.0	.2	1.5	.5	.0	.0	.0	126	.2
51/52	.0	.0	.0	.0	.0	.0	.5	6.2	6.4	1.0	.0	.0	800	1.2
49/50	.0	.0	.0	.0	.0	.1	4.3	37.1	16.7	1.1	.0	.0	3352	4.9
47/48	.0	.0	.0	.0	.0	.7	23.0	42.5	41.7	9.3	1.6	.1	8792	9.8
45/46	.0	.0	.1	.1	1.5	5.6	40.8	10.2	26.7	26.1	5.9	1.7	6921	10.0
43/44	.4	.2	.2	.1	2.2	27.8	23.6	2.3	5.8	33.7	9.3	1.6	8252	9.1
41/42	2.7	.3	1.6	2.4	11.5	37.0	7.1	.2	1.1	20.7	40.7	6.6	7610	11.0
39/40	25.0	13.2	7.3	18.0	48.4	23.4	.6	.9	7.8	31.7	53.9	13281	19.2	
37/38	50.2	38.6	62.8	65.9	34.5	4.9	.0	.0	.1	.2	10.3	29.9	18179	26.3
35/36	18.6	22.9	25.2	11.8	1.8	.3	.0	.0	.0	.1	.5	5.5	4921	7.1
33/34	2.3	4.7	2.7	1.5	.0	.1	.0	.0	.0	.0	.1	.5	673	1.0
31/32	.6	.2	.1	.2	.0	.2	.0	.0	.0	.0	.1	.1	84	.1
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	12	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	5927	5225	5795	5863	5868	5668	5944	5627	5609	6032	5667	5782	69007	100.0
MEAN	37.7	37.2	37.1	37.7	39.1	41.6	45.4	48.2	47.1	43.8	41.0	39.0	41.2	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

HR	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1003	1003	1002	1002	1003	1003	1002	1003	1003	5869
FEB	1005	1005	1004	1004	1005	1005	1004	1005	1005	5294
MAR	1007	1006	1006	1006	1007	1006	1006	1007	1006	5784
APR	1010	1010	1009	1009	1010	1010	1010	1010	1010	5876
MAY	1013	1012	1012	1012	1012	1012	1012	1012	1012	5878
JUN	1011	1011	1010	1010	1010	1011	1010	1011	1011	5677
JUL	1011	1011	1010	1011	1011	1011	1011	1011	1011	5946
AUG	1010	1010	1009	1009	1010	1010	1010	1010	1010	5633
SEP	1009	1008	1008	1008	1008	1008	1008	1008	1008	5620
OCT	1007	1006	1006	1006	1007	1006	1006	1007	1006	6039
NOV	1008	1008	1008	1008	1008	1008	1007	1008	1008	5678
DEC	1003	1003	1003	1003	1003	1003	1003	1003	1003	5791
ANN	1008	1008	1007	1007	1008	1008	1007	1008	1008	69085
MS	8655	8671	8627	8617	8590	8636	8628	8661		

PERCENTILES

HR	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	951	967	978	993	1003	1012	1025	1033	1053
FEB	951	968	981	995	1004	1014	1027	1034	1039
MAR	956	975	984	998	1008	1015	1025	1031	1037
APR	959	979	989	1004	1011	1017	1026	1032	1045
MAY	974	987	996	1006	1012	1019	1027	1031	1036
JUN	983	989	996	1005	1011	1016	1022	1026	1033
JUL	981	992	997	1006	1011	1016	1022	1027	1031
AUG	981	987	995	1005	1010	1015	1021	1024	1030
SEP	965	984	992	1002	1009	1015	1022	1026	1031
OCT	957	975	986	1000	1007	1014	1023	1030	1041
NOV	945	968	983	999	1009	1017	1028	1033	1040
DEC	935	963	978	995	1004	1012	1023	1030	1042

PERIOD: (PRIMARY) 1954-1971
(OVER-ALL) 1898-1971

JANUARY

AREA 0003 NE NEWFOUNDLAND COAST
48.9N 52.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.6	1.0	.6	.0	28.4	.0	.0	31.0	5.2	.0	7.7	1.3	.0	1.3	53.5
NE	8.1	.3	2.6	3.9	25.9	2.6	.0	19.6	1.3	.0	11.3	.0	.0	.0	51.8
E	7.6	.0	.0	.0	31.0	2.8	.0	33.8	.0	.0	17.2	.0	.0	.0	49.0
SE	5.5	4.9	.0	.0	16.0	.0	.0	26.4	8.0	.0	19.6	.0	.0	.0	46.0
S	10.9	2.5	.0	1.7	10.5	.0	.0	23.9	1.3	.0	17.2	1.3	.0	.0	56.3
SW	3.9	1.3	.9	.0	10.3	.2	.0	15.8	2.8	.0	5.7	.2	.0	.0	75.5
W	1.1	.0	.0	.0	24.2	.5	.0	25.2	1.7	.0	2.0	.0	.3	.0	70.8
NW	1.8	2.7	1.3	.0	24.2	.9	.0	30.0	2.7	.0	2.7	.0	1.3	.0	63.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	83.3
TOT PCT	4.1	1.3	.7	.6	20.8	.7	.0	26.2	2.6	.0	7.8	.3	.3	.1	62.7
TOT OBS:	691														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	1.9	1.3	.0	.6	19.9	1.3	.0	25.0	2.6	.0	5.1	.0	.0	.0	67.3
0600	5.0	3.6	1.4	1.4	25.7	.7	.0	34.3	2.9	.0	7.1	.0	.7	.0	55.0
1200	4.5	.5	1.0	.5	17.8	1.0	.0	22.8	2.5	.0	9.4	.5	.0	.0	64.9
1800	4.6	.5	.5	.0	21.0	.0	.0	24.6	2.6	.0	9.7	.5	.5	.5	61.5
TOT PCT	4.0	1.3	.7	.6	20.8	.7	.0	26.1	2.6	.0	8.1	.3	.3	.1	62.5
TOT OBS:	693														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	1.4	4.2	4.6	1.3	.1		11.8	21.9		13.5	12.5	10.4	19.8	10.3	13.0	10.9	11.5
NE	.1	2.7	4.4	3.0	.6	.0		10.9	18.0		9.6	9.8	9.1	2.6	10.1	8.3	15.1	16.9
E	.2	1.4	2.3	1.2	.1	.0		5.2	16.3		6.4	6.3	6.3	5.2	5.4	4.6	4.0	2.0
SE	.1	1.0	2.4	1.6	.5	.1		5.8	19.5		7.0	7.1	5.7	8.6	4.3	6.5	4.3	11.5
S	.4	2.4	3.4	1.7	.3	.0		8.3	15.7		5.8	3.6	9.1	7.8	10.8	7.4	9.0	6.8
SW	.6	4.3	7.3	3.3	.7	.1		16.2	16.4		16.2	17.9	13.7	11.2	20.7	14.8	14.6	15.5
W	.4	3.4	8.7	8.9	1.7	.1		23.3	20.6		25.6	24.1	23.3	17.2	21.8	23.1	23.1	25.7
NW	.0	2.9	6.3	6.3	1.4	.0		16.9	20.3		14.5	18.8	18.9	27.6	14.7	22.2	17.1	10.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0		1.5	.0	3.5	.0	1.9	.0	1.9	.0
TOT OBS	26	140	279	219	48	3	715		18.7		133	28	115	29	158	54	161	37
TOT PCT	3.6	19.6	39.0	30.6	6.7	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	03	09	15
N	.7	2.8	5.5	2.0	.9			11.8	21.9		13.4	12.3	11.0	11.0
NE	1.0	4.4	2.8	2.6	.9			10.9	18.0		9.6	7.8	9.7	15.4
E	.7	1.6	2.3	.6	.0			5.2	16.3		6.4	6.1	5.2	3.7
SE	.7	1.7	2.5	.6	.3			5.8	19.5		7.0	6.3	4.8	5.7
S	1.4	3.3	2.8	.7	.1			8.3	15.7		5.4	8.9	9.9	8.6
SW	2.2	6.7	5.2	1.7	.3			16.2	16.4		16.3	13.2	19.2	14.8
W	1.5	6.3	10.3	5.0	.2			23.3	20.6		25.3	22.0	22.2	23.6
NW	1.0	5.7	6.4	3.3	.4			16.9	20.3		15.2	20.7	16.6	15.8
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	1.7							1.7	.0		1.2	2.8	1.4	1.5
TOT OBS	78	233	270	118	16	715			18.7		161	144	212	198
TOT PCT	10.9	32.6	37.8	16.5	2.2			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1954-1971
(OVER-ALL) 1894-1971

JANUARY

AREA 0003 NE NEWFOUNDLAND COAST
48.9N 52.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

MOHR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	1.2	3.1	23.0	32.9	32.3	7.5	.0	18.4	100.0	161
06009	2.8	1.4	22.9	36.1	29.2	6.3	1.4	18.6	100.0	144
12015	1.4	1.9	19.3	41.5	29.2	6.1	.5	18.7	100.0	212
18021	1.5	1.5	14.6	43.4	31.8	7.1	.0	19.0	100.0	198
TOT	12	14	140	279	219	48	3	18.7		715
PCT	1.7	2.0	19.6	39.0	30.6	6.7	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.3	.4	1.4	9.3		7.4
NE	.6	.4	1.9	7.8		7.1
E	.3	.3	.4	4.4		7.1
SE	.5	.2	.5	5.0		7.2
S	.8	.3	1.7	5.6		6.7
SW	3.6	1.2	4.2	6.9		5.5
W	5.8	2.4	7.2	8.2		5.2
NW	2.1	.9	4.4	9.1		6.4
VAR	.0	.0	.0	.0		.0
CALM	.9	.2	.2	.6		3.7
TOT OBS	95	39	139	359	632	6.2
TOT PCT	15.0	6.2	22.0	56.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	5500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.6	.1	.4	.8	4.2	1.9	.6	.1	.6	.0	1.2	
NE	1.5	.4	1.0	1.7	1.7	1.5	.3	.0	.2	.2	2.3	
E	2.0	.0	.0	.2	.4	.7	.4	.0	.5	.2	1.2	
SE	2.0	.0	.2	.5	1.3	.9	.8	.0	.4	.0	.8	
S	1.0	.0	.3	1.5	1.2	1.3	.1	.3	.6	.2	1.9	
SW	.5	.2	.5	1.3	1.8	2.3	.6	.4	1.0	.4	6.9	
W	.6	.0	.3	1.4	4.4	4.9	.7	.1	1.0	.0	10.4	
NW	1.0	.0	.1	1.6	4.7	3.4	.3	.1	.3	.0	4.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.2	.0	.0	.0	.5	.0	1.1	
TOT OBS	65	4	17	57	125	107	19	6	32	6	194	632
TOT PCT	10.3	.6	2.7	9.0	19.8	16.9	3.0	.9	5.1	.9	30.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

VSBY (NM)									
CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0	
= OR >6500	4.5	5.8	6.1	6.1	6.1	6.1	6.1	6.1	
= OR >5000	5.2	6.6	7.1	7.1	7.1	7.1	7.1	7.1	
= OR >3500	7.2	9.2	10.1	10.1	10.1	10.1	10.1	10.1	
= OR >2000	14.8	23.0	26.6	26.6	26.7	26.7	26.7	26.7	
= OR >1000	20.5	37.8	44.8	45.6	46.1	46.2	46.2	46.2	
= OR >600	22.4	42.7	51.5	53.1	54.8	55.4	55.6	55.6	
= OR >300	22.7	43.3	53.1	55.1	57.3	58.1	58.3	58.3	
= OR >150	22.7	43.6	53.6	55.6	57.8	58.8	58.9	58.9	
= OR >0	23.0	44.1	55.1	58.0	62.6	65.7	68.9	69.1	
TOTAL	143	274	342	360	389	408	428	429	

TOTAL NUMBER OF OBS: 621

PCT FREQ NH <5/8: 30.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
8.2	7.4	5.6	5.4	3.7	4.5	8.3	8.3	38.8	9.6	647

PERIOD: (PRIMARY) 1954-1971
(OVER-ALL) 1898-1971

JANUARY

AREA 0003 NE NEWFOUNDLAND COAST
48.9N 52.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.6	.6	.3	.5	.1	.5	.1	.3	.0	.0	3.1	
	NO PCP	.3	.5	.7	.8	.6	.7	.1	.3	.0	.1	3.5	
	TOT %	.9	1.1	1.0	1.3	.7	.7	.2	.6	.0	.1	6.6	
1/2<1	PCP	.5	1.0	.7	.1	.4	.1	.4	.3	.0	.0	3.5	
	NO PCP	.1	.0	.0	.0	.3	.7	.3	.0	.0	.0	.9	
	TOT %	.7	1.0	.7	.1	.6	.4	.7	.3	.0	.0	4.4	
1<2	PCP	.3	.4	.1	.3	.1	.1	.1	.4	.0	.0	1.9	
	NO PCP	.1	.1	.1	.2	.1	.1	.0	.0	.0	.0	.9	
	TOT %	.5	.5	.3	.5	.3	.3	.1	.4	.0	.0	2.8	
2<5	PCP	1.0	.9	.6	.2	.9	.7	1.8	1.3	.0	.0	6.9	
	NO PCP	1.1	.8	.1	.5	.4	.4	.5	.6	.0	.1	4.4	
	TOT %	2.1	1.7	.6	.7	1.3	.6	2.3	1.9	.0	.1	11.3	
5<10	PCP	.6	.8	.0	.4	.4	.9	2.8	2.1	.0	.0	8.1	
	NO PCP	2.2	2.6	1.0	1.2	1.6	2.4	4.0	3.1	.0	.0	18.2	
	TOT %	2.8	3.4	1.0	1.7	2.0	3.3	6.9	5.2	.0	.0	26.3	
10+	PCP	.3	.4	.1	.1	.1	.7	.7	.4	.0	.0	2.5	
	NO PCP	3.8	3.1	1.3	1.7	3.6	10.4	12.8	7.6	.0	1.5	46.1	
	TOT %	4.1	3.2	1.4	1.7	3.7	11.4	13.5	8.0	.0	1.5	48.6	
TOT OBS													
TOT PCT													
		11.0	10.8	5.1	5.9	8.6	16.8	23.6	16.3	.0	1.8	100.0	681

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.3	.4	.2	.3	.1	.1	.6	.0		2.2	
	11-21	.1	.4	.6	.4	.4	.3	.1	.1	.0		2.3	
	22+	.6	.4	.1	.7	.0	.3	.1	.0	.0		2.3	
	TOT %	.9	1.0	1.1	1.3	.7	.7	.3	.7	.0	.1	6.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0		.3	
	11-21	.3	.4	.4	.0	.1	.3	.3	.4	.0		1.9	
	22+	.4	.4	.1	.1	.5	.4	.4	.3	.0		2.2	
	TOT %	.6	1.0	.7	.1	.6	.4	.6	.3	.0	.0	4.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	11-21	.0	.2	.3	.1	.0	.1	.0	.1	.0		.9	
	22+	.5	.3	.0	.3	.3	.0	.1	.3	.0		1.7	
	TOT %	.5	.5	.3	.5	.3	.3	.1	.4	.0	.0	2.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.3	.1	.1	.1	.4	.1	.0	.0		.7	
	11-21	1.0	.9	.1	.4	.6	.2	.9	.7	.0		4.7	
	22+	1.1	.5	.4	.2	.6	.4	1.4	1.2	.0		5.7	
	TOT %	2.0	1.7	.6	.7	1.3	.6	2.4	1.9	.0	.1	11.4	
5<10	0-3	.0	.0	.1	.4	.1	.1	.1	.0	.0	.0	.4	
	4-10	.3	.8	.1	.1	.6	.4	.2	.6	.0		3.2	
	11-21	1.0	1.1	.3	.7	.9	1.8	2.1	1.7	.0		9.6	
	22+	1.4	1.4	.4	.7	.4	1.0	4.5	3.1	.0		12.9	
	TOT %	2.8	3.3	1.0	1.6	2.0	3.3	6.9	5.4	.0	.0	26.1	
10+	0-3	.1	.1	.1	.4	.3	.5	.3	.0	.0	1.4	3.0	
	4-10	.8	1.3	.5	.5	1.4	3.7	3.0	1.6	.0		12.8	
	11-21	1.9	1.0	.5	.8	1.5	4.8	5.7	3.8	.0		20.1	
	22+	1.3	.7	.3	.3	.4	2.4	4.5	2.8	.0		12.6	
	TOT %	4.2	3.2	1.4	1.7	3.6	11.4	13.5	8.2	.0	1.4	48.6	
TOT OBS													
TOT PCT													
		11.0	10.7	5.1	5.8	8.4	16.6	23.9	16.8	.0	1.7	100.0	696

JANUARY

PERIOD: (PRIMARY) 1954-1971
(OVER-ALL) 1898-1971AREA 0003 NE NEWFOUNDLAND COAST
48.9N 52.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	8.6	.0	.0	6.5	19.4	16.5	1.4	.7	7.2	.7	61.2	38.8	139
06009	16.5	.0	1.5	9.0	16.5	13.5	2.3	1.5	8.3	.0	69.2	30.8	133
12015	9.7	1.6	4.9	12.4	17.8	15.1	4.9	1.1	2.2	1.1	70.8	29.2	185
18021	7.3	.6	3.4	7.9	24.2	21.3	2.8	.6	3.9	1.7	73.6	26.4	178
TOT PCT	65 10.2	4 .6	17 2.7	58 9.1	125 19.7	107 16.9	19 3.0	6 .9	32 5.0	6 .9	439 69.1	196 30.9	635 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	4.6	5.2	2.6	10.5	26.8	50.3	153
06009	9.3	3.6	3.6	13.6	22.1	47.9	140
12015	9.5	4.7	1.4	10.4	27.0	46.9	211
18021	5.1	3.6	9.6	11.8	27.2	48.7	195
TOT PCT	50 7.2	30 4.3	19 2.7	80 11.4	182 26.0	338 48.4	699 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	9.0	12.0	27.1	34.6	38.3	133
06009	16.9	20.0	37.7	33.1	29.2	130
12015	9.3	19.1	31.7	38.8	29.5	183
18021	6.9	13.7	32.0	42.9	25.1	175
TOT PCT	63 10.1	101 16.3	199 32.0	235 37.8	187 30.1	621 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	.2	.2	.0	2	.4
40/44	.0	.0	.0	.0	.2	.0	.4	1.1	9	1.6
35/39	.0	.0	.0	.0	.2	2.0	3.4	5.8	63	11.4
30/34	.0	.0	.0	.0	.5	2.7	9.2	14.3	148	26.8
25/29	.0	.0	.2	.2	3.1	7.1	6.3	6.3	128	23.2
20/24	.0	.0	.0	.2	2.5	5.6	6.9	2.9	100	18.1
15/19	.0	.0	.0	.2	.9	3.3	3.6	1.3	51	9.2
10/14	.2	.4	.7	.2	1.6	.9	1.6	.9	36	6.5
5/9	.0	.0	.0	.2	.2	1.1	.0	.2	9	1.6
0/4	.0	.0	.2	.0	.2	.4	.2	.2	6	1.1
TOTAL	1	2	6	5	52	128	176	182	592	100.0
PCT	.2	.4	1.1	.9	9.4	23.2	31.9	33.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.0	.0	.0	.2	.0	.0	.0	.0
.0	.0	.0	.3	.8	.3	.1	.2	.0	.0
1.9	2.4	1.3	.8	2.2	2.0	.6	.0	.0	.2
4.3	5.7	2.2	2.5	2.7	3.6	2.6	3.0	.0	.2
2.4	1.6	1.0	1.0	.6	4.1	7.5	4.8	.0	.2
1.7	1.1	.5	.1	.8	2.2	5.1	6.1	.0	.5
.6	.2	.5	.2	.5	1.7	3.1	2.0	.0	.4
.4	.2	.0	.0	.0	1.3	3.8	.7	.0	.2
.0	.0	.0	.0	.0	.6	.6	.2	.0	.2
.0	.0	.0	.0	.4	.2	.4	.0	.0	.2
11.4	11.3	5.5	4.8	7.9	16.2	23.8	17.0	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	45	40	36	28	11	4	3	26.7	162
06009	41	40	37	27	12	5	3	26.2	143
12015	47	41	36	28	13	1	0	26.5	210
18021	43	40	37	28	15	11	11	27.9	197
TOT	47	41	37	28	13	5	0	26.9	712

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.5	9.7	27.6	34.3	26.9	83	134
06009	.0	1.7	6.0	19.7	37.6	35.0	85	117
12015	.0	3.2	4.5	22.6	29.7	40.0	85	155
18021	.7	2.7	16.9	22.3	27.0	30.4	81	148
TOT	1	13	52	128	176	184	84	534

PERIOD: (PRIMARY) 1954-1971
(OVER-ALL) 1898-1971

JANUARY

AREA 0003 NE NEWFOUNDLAND COAST
48.9N 52.8W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	W FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.2	.9	.0	6	.2	.9
6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.4	5	.5	.4
5	.0	.0	.0	.0	.0	.0	.0	.2	1.8	.7	.0	15	.5	2.2
4	.0	.0	.0	.0	.0	.0	.0	.0	3.4	.2	.0	20	.5	3.1
3	.0	.0	.0	.0	.0	.0	.0	.2	3.6	.4	.0	23	1.6	2.5
2	.0	.0	.0	.0	.0	.0	.0	.7	3.4	.7	.0	27	1.1	3.8
1	.0	.0	.0	.0	.0	.0	.0	1.4	4.7	.2	.0	35	.9	5.4
0	.0	.0	.0	.0	.0	.0	.2	5.1	2.0	.0	.0	40	1.6	5.6
-1	.0	.0	.0	.0	.0	.0	.5	2.9	2.3	.0	.0	32	1.1	4.7
-2	.0	.0	.0	.0	.0	.0	.9	3.4	.5	.0	.0	27	.4	4.5
-3	.0	.0	.0	.0	.0	.0	2.2	2.3	.0	.0	.0	25	.2	4.3
-4	.0	.0	.0	.0	.0	.2	3.8	1.8	.0	.0	.0	32	.0	5.8
-5	.0	.0	.0	.0	.0	.4	2.7	.9	.0	.0	.0	22	.0	4.0
-6	.0	.0	.0	.0	.0	1.1	3.1	1.1	.0	.0	.0	29	.0	5.2
-7/-8	.0	.0	.0	.0	.2	4.7	4.5	.5	.0	.0	.0	55	.0	9.9
-9/-10	.0	.0	.0	.0	1.8	3.6	2.2	.0	.0	.0	.0	42	.2	7.4
-11/-13	.0	.0	.0	.0	4.7	4.2	.4	.0	.0	.0	.0	51	.0	9.2
-14/-16	.0	.0	.0	2.5	1.8	.0	.0	.0	.0	.0	.0	24	.0	4.3
-17/-19	.0	.0	1.1	1.6	.7	.0	.0	.0	.0	.0	.0	19	.0	3.4
-20/-22	.0	.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	10	.0	1.8
-23/-25	.0	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	7	.0	1.3
-26/-30	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	1.3
TOTAL	3	6	15	29	51	78	113	123	19	3		554	49	505
PCT	.5	1.1	2.7	5.2	9.2	14.1	20.4	20.6	22.2	3.4	.5	100.0	8.8	91.2

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.8	.5	.0	.0	.0	1.3	.5	.0	.0	.0	.0	.0	.5
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.0	.5	.0	.0	1.4	.0	.5	.7	.0	.0	.0	1.2
5-6	.0	.0	1.0	.5	.0	.0	1.4	.0	.0	1.0	1.9	.5	.0	3.3
7	.0	.0	.4	1.8	.0	.0	2.2	.0	.1	.2	1.1	.0	.0	1.4
8-9	.0	.4	.4	.4	.0	.0	1.1	.0	.1	1.4	1.0	.0	.0	2.5
10-11	.0	.0	.4	1.0	.0	.0	1.3	.0	.0	.1	.6	.1	.0	.8
12	.0	.0	.0	.5	.4	.0	.8	.0	.0	.0	.5	.1	.0	.6
13-16	.0	.0	.0	1.7	.5	.0	2.2	.0	.0	.0	.0	1.0	.0	1.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
20-22	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	3.5	6.2	1.3	.0	12.2	.5	.7	3.5	5.5	1.7	.0	11.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.4	.0	.0	.0	.0	.7	.1	.1	.0	.0	.0	.0	.2
1-2	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	1.4	.0	.0	.0	1.4
3-4	.0	.0	1.2	.5	.0	.0	1.7	.0	.0	.0	.6	.0	.0	.6
5-6	.0	.0	.5	1.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.4	1.2	.5	.0	.0	2.0	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.1	.5	.0	.6
10-11	.0	.0	.0	.7	.4	.0	1.1	.0	.0	.0	1.6	.0	.0	1.6
12	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.7	4.8	4.1	.4	.0	10.3	.1	.1	2.5	2.3	.5	.0	5.5

PERIOD: (OVER-ALL) 1963-1971

JANUARY

AREA 0003 NE NEWFOUNDLAND COAST
48.9N 52.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.5	1.4	.0	.0	.0	.0	1.9
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.1	.0	.0	.0	1.1
3-4	.0	.0	.4	.8	.0	.0	1.2	.0	.5	1.6	.1	.0	.0	2.2
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	3.7	.0	.0	.0	3.7
7	.0	.5	1.3	.0	.5	.0	2.3	.0	.0	.6	.6	.0	.0	1.2
8-9	.0	.0	.5	.8	.0	.0	1.3	.0	.0	.5	1.1	.1	.0	1.7
10-11	.0	.0	.4	1.2	.0	.0	1.6	.0	.0	.1	.8	1.0	.0	1.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	2.9	2.9	.5	.0	6.7	.5	2.9	7.1	2.6	1.2	.0	14.2

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	1.0	.0	.0	.0	1.0	.0	.1	.5	.0	.0	.0	.6	
1-2	.0	.5	.4	.0	.0	.0	.8	.0	1.4	.5	.0	.0	.0	1.9	
3-4	.0	.0	1.4	.4	.0	.0	1.8	.0	.0	1.4	.0	.0	.0	1.4	
5-6	.0	.0	1.6	1.0	.0	.0	2.5	.0	.0	2.5	1.0	.0	.0	3.5	
7	.0	.0	1.8	3.0	.4	.0	5.1	.0	1.0	.6	1.2	.6	.0	3.3	
8-9	.0	.0	1.0	2.0	.8	.0	3.8	.0	.0	.1	1.8	.5	.0	2.4	
10-11	.0	.0	.0	.8	.5	.0	1.3	.0	.0	.5	1.0	.5	.0	1.9	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	
13-16	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	2.2	1.1	.0	3.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.6	.0	.6	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.5	7.1	7.2	4.2	.0	18.9	.0	2.5	6.1	8.0	3.7	.0	20.3	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.4	2.9	1.9	.0	.0	.0	6.2	
1-2	.0	2.9	3.3	.0	.0	.0	6.2	
3-4	.0	1.0	7.7	2.9	.0	.0	11.5	
5-6	.0	.0	10.5	9.3	.5	.0	16.3	
7	.0	1.9	7.2	8.1	1.4	.0	18.7	
8-9	.0	.5	4.8	7.2	1.9	.0	14.4	
10-11	.0	.0	1.4	7.7	2.4	.0	11.5	
12	.0	.0	.5	3.3	.5	.0	4.3	
13-16	.0	.0	.0	3.8	3.3	.0	7.2	
17-19	.0	.0	.0	.5	.0	.0	.5	
20-22	.0	.0	.0	.0	1.4	.0	1.4	
23-25	.0	.0	.0	.0	1.4	.0	1.4	
26-32	.0	.0	.0	.0	.5	.0	.5	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	9.1	37.3	38.8	13.4	.0	100.0	209

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	1.3	3.8	4.3	6.3	.8	1.5	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	6
6-7	.0	.5	1.5	2.5	8.3	7.6	7.1	2.0	4.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	9
8-9	.0	.0	.0	2.0	4.0	3.0	4.5	3.3	3.0	1.3	.5	.0	.8	.0	.0	.0	.0	.0	.0	89	11
10-11	.0	.0	.0	.3	2.3	1.5	.8	.8	1.5	.3	1.0	.8	.0	.0	.0	.0	.0	.0	.0	36	12
12-13	.0	.0	.0	.0	.5	.8	.8	.3	.8	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	14	12
>13	.0	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDEX	1.0	.0	1.3	1.0	1.5	1.3	2.0	1.5	.5	.8	.0	.0	.0	.5	.0	.0	.0	.0	.0	43	8
TOTAL	5	7	26	40	93	61	66	31	42	13	6	3	4	0	0	0	0	0	0	397	9
PCT	1.3	1.8	6.5	10.1	23.4	15.4	16.6	7.8	10.6	3.3	1.5	.8	1.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1963-1971
(OVER-ALL) 1880-1971AREA 0003 NE NEWFOUNDLAND COAST
48.9N 59.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
N	3.4	.5	.0	.0	41.2	2.1	.0	46.1	1.0	.0	6.2	.0	.0	.0	46.6		
NE	13.6	1.8	11.0	3.7	14.7	.0	.0	43.0	7.3	.0	.0	.0	.9	.0	46.8		
E	13.7	.0	3.2	.0	44.2	4.2	.0	63.3	.0	.0	8.4	.0	3.2	.0	23.2		
SE	3.9	7.3	1.8	2.9	9.2	.4	.0	27.3	1.8	.0	31.1	.0	.0	.0	39.6		
S	4.4	.0	2.0	.0	10.3	1.5	.0	17.2	3.4	.0	13.2	.0	.0	.0	66.2		
SW	5.2	1.2	1.2	1.2	13.7	2.3	.0	20.7	3.5	.0	2.3	.0	.3	.3	72.9		
W	.0	.0	.0	.0	17.4	.0	.0	17.4	2.2	.0	.7	.0	.6	2.8	76.3		
NW	1.7	.0	1.1	.0	32.1	3.3	.0	37.7	3.3	.0	3.3	.0	.0	.0	55.7		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0		
TOT PCT	4.6	1.2	1.4	.7	22.3	1.5	.0	30.1	2.6	.0	7.2	.0	.3	.7	59.1		
TOT OBS:	582																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
00003	4.1	1.4	.7	.7	29.7	.7	.0	35.9	2.1	.0	6.2	.0	.7	.0	55.2		
06009	1.7	.8	1.7	.8	19.3	.8	.0	24.4	2.5	.0	5.0	.0	.0	.0	68.1		
12015	4.7	1.2	.6	1.2	18.5	1.8	.0	24.7	3.5	.0	9.4	.0	.6	1.8	60.0		
18021	5.2	1.3	2.6	.0	24.2	2.6	.0	33.3	2.0	.0	7.2	.0	.0	.7	54.9		
TOT PCT	4.1	1.2	1.4	.7	22.3	1.5	.0	30.2	2.6	.0	7.2	.0	.3	.7	59.1		
TOT OBS:	587																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.1	4.8	7.2	3.2	1.2	.0	16.5	17.1	12.0	17.9	22.8	15.1	19.9	12.7	14.8	15.9		
NE	.4	1.5	1.7	1.0	.0	.0	4.5	14.3	7.5	6.0	3.2	2.3	4.9	4.4	3.3	3.4		
E	.3	.9	1.0	1.6	.3	.0	4.0	19.5	4.6	1.8	2.8	6.4	1.3	4.4	5.5	6.8		
SE	.9	2.8	4.5	2.3	1.0	.0	11.6	17.3	13.5	3.6	7.0	4.1	14.3	19.3	13.7	7.4		
S	.6	2.3	7.6	1.9	.5	.0	8.9	16.8	6.7	4.2	5.7	8.7	12.8	8.8	10.4	10.8		
SW	.6	3.9	6.7	3.5	.8	.0	15.1	16.5	15.1	14.9	20.6	16.9	12.8	13.2	14.2	14.8		
W	1.3	2.0	8.6	8.0	2.9	.1	23.0	21.4	23.6	31.0	24.1	30.2	20.9	21.9	21.5	15.9		
NW	.4	2.9	6.3	4.2	1.3	.3	15.4	19.8	17.1	18.5	12.7	16.3	11.3	13.6	15.7	25.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.0						1.0	.0	.0	2.4	1.3	.0	1.7	1.8	.9	.0		
TOT OBS	34	126	235	154	48	2	599		104	47	79	43	117	57	113	44		
TOT PCT	5.7	21.0	39.2	25.7	8.0	.3		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	2.3	6.3	6.1	1.5	.5		16.5	17.1	13.7	20.1	17.5	15.1
NE	1.1	1.5	1.8	1.2	.0		4.5	14.3	7.0	2.9	4.7	3.3
E	.5	1.0	1.3	1.1	.0		4.0	19.5	3.8	4.1	2.3	5.9
SE	1.4	4.8	3.1	2.1	.2		11.6	17.3	10.6	5.9	15.9	11.9
S	1.3	3.8	2.3	1.6	.0		8.9	16.8	6.0	6.8	11.5	10.5
SW	2.6	5.5	5.1	1.7	.2		15.1	16.5	15.1	19.3	12.9	14.3
W	1.9	5.3	9.0	6.3	.5		23.0	21.4	25.7	26.2	21.3	19.9
NW	1.3	5.0	6.1	2.4	.7		15.4	19.8	17.5	13.9	12.1	18.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.0						1.0	.0	.7	.8	1.7	.6
TOT OBS	80	199	208	190	12	599		18.2	146	122	174	157
TOT PCT	13.4	33.2	34.7	16.7	2.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.7	6.2	26.0	34.2	21.9	10.3	.7	17.8	100.0	146
06009	.8	4.9	20.5	42.6	22.1	9.0	.0	18.3	100.0	122
12015	1.7	4.0	20.1	40.2	28.7	5.2	.0	17.6	100.0	174
18021	.6	3.8	17.8	40.1	28.7	8.3	.6	19.2	100.0	157
TOT	6	28	126	235	154	48	2	18.2		599
PCT	1.0	4.7	21.0	39.2	25.7	8.0	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD COVER	MEAN
N	1.1	.4	1.6	12.8	7.2	
NE	.5	.2	1.5	2.7	6.6	
E	.2	.1	.1	3.9	7.4	
SE	.3	.4	1.1	8.0	7.3	
S	2.2	.3	2.1	4.4	5.7	
SW	5.6	1.3	3.3	5.4	4.6	
W	7.5	2.3	8.3	5.2	4.4	
NW	3.4	.5	3.6	8.4	5.8	
VAR	.0	.0	.0	.0	.0	
CALM	.4	.2	.4	.2	4.1	
TOT OBS	110	30	115	264	519	5.7
TOT PCT	21.2	5.8	22.2	50.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH >4/R)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL
	149	290	599	999	1999	3499	4999	6499	7999			OBS
N	1.8	.4	1.7	3.7	2.6	2.8	1.0	.1	.2	.0	1.6	
NE	.5	.0	.2	.8	1.5	.5	.0	.0	.0	.0	1.5	
E	1.1	.0	.0	.7	1.5	.5	.0	.0	.0	.1	.4	
SE	2.1	.0	.6	1.0	2.0	1.5	.1	.0	.5	.2	1.8	
S	.8	.0	.3	.8	1.8	1.3	.2	.2	.1	.0	3.5	
SW	.2	.0	.1	.2	4.8	1.1	.0	.5	1.0	7.8		
W	1.1	.4	.2	.4	7.1	2.5	.4	.2	.1	.0	10.9	
NW	.7	.0	.4	1.5	6.5	2.2	.1	.1	.0	.0	4.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	.8	
TOT OBS	44	4	18	47	144	64	11	3	7	7	170	519
TOT PCT	8.5	.8	3.5	9.1	27.7	12.3	2.1	.6	1.3	1.3	32.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/R) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)								
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	
>6500	1.2	2.1	2.5	2.7	2.7	2.7	2.7	2.7	
>5000	1.6	2.7	3.1	3.3	3.3	3.3	3.3	3.3	
>3500	2.9	4.9	5.6	5.8	5.8	5.8	5.8	5.8	
>2000	7.8	15.0	17.5	18.1	18.1	18.1	18.3	18.3	
>1000	17.3	34.8	42.7	44.7	46.0	46.0	46.4	46.4	
>600	18.3	38.1	48.3	53.2	55.1	55.1	55.5	55.5	
>300	18.4	39.0	50.7	55.9	58.4	58.4	59.0	59.0	
>150	18.4	39.2	51.3	56.7	59.2	59.2	59.8	59.8	
>0	18.4	39.6	52.0	57.9	61.4	63.3	66.8	68.2	
TOTAL	95	204	268	298	316	326	344	351	

TOTAL NUMBER OF OBS: 515

PCT FREQ NH <5/8: 31.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.6	6.3	4.7	3.6	3.0	5.1	8.9	8.0	37.7	8.1	528

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.7	.4	.4	.3	.3	.5	.8	.4	.0	.0	4.3	
	NO PCP	.3	.0	.0	3.0	.7	.0	.0	.2	.0	.0	4.3	
	TOT %	1.6	.4	.4	3.3	1.0	.5	.8	.6	.0	.0	8.6	
1/2<1	PCP	.3	.0	.8	.3	.0	.7	.5	.3	.0	.0	2.4	
	NO PCP	.3	.0	.2	.5	.0	.2	.2	.0	.0	.0	1.4	
	TOT %	.7	.0	.9	.8	.0	.9	.7	.3	.0	.0	3.8	
1<2	PCP	2.7	.8	.2	.5	.5	*	.2	.4	.0	.0	4.8	
	NO PCP	.3	.0	.0	.3	.4	.0	.0	.2	.0	.0	1.2	
	TOT %	2.5	.8	.2	.8	.9	*	.2	.6	.0	.0	6.0	
2<5	PCP	2.8	.7	.8	1.1	.4	.9	1.5	1.9	.0	.0	10.1	
	NO PCP	.6	*	.3	.2	.3	.4	1.0	.8	.0	.0	3.4	
	TOT %	3.4	.7	1.1	1.3	.6	1.4	2.4	2.5	.0	.0	13.6	
5<10	PCP	.8	.2	.5	.9	.4	1.6	.9	2.0	.0	.0	7.2	
	NO PCP	2.8	1.3	.3	2.0	1.9	3.6	7.4	3.4	.0	.2	22.8	
	TOT %	3.6	1.5	.8	2.9	2.3	5.2	8.3	5.4	.0	.2	30.0	
10+	PCP	.3	.0	.0	.2	.0	.0	.2	.8	.0	.0	1.4	
	NO PCP	4.6	1.2	.6	2.5	3.9	7.4	10.4	5.3	.0	.7	36.7	
	TOT %	4.8	1.2	.6	2.7	3.9	7.4	10.6	6.0	.0	.7	38.1	
TOT OBS													583
TOT PCT		16.6	4.7	4.1	11.7	8.7	14.9	22.9	15.5	.0	.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.2	.0	.0	.6	*	.0	.0	.3	
	4-10	.6	.4	.1	1.0	.1	.0	.2	.2	.0	.0	2.4	
	11-21	.3	.0	.0	1.5	.3	.2	.3	*	.0	.0	2.9	
	22+	.5	*	.3	.6	.4	.3	.3	.3	.0	.0	2.9	
	TOT %	1.6	.4	.4	3.3	1.0	.5	.8	.6	.0	.0	8.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.3	.0	.0	.2	.0	.0	.0	.0	.7	
	11-21	.2	.0	.2	.3	.0	.0	.2	.2	.0	.0	1.2	
	22+	.3	.0	.4	.3	.0	.2	.3	.2	.0	.0	1.9	
	TOT %	.7	.0	.9	.8	.0	.3	.7	.3	.0	.0	3.7	
1<2	0-3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	4-10	.8	.0	.0	.2	.3	*	.0	.4	.0	.0	1.7	
	11-21	.8	.4	.0	.2	.2	.0	.2	.0	.0	.0	1.7	
	22+	.9	.4	.2	.1	.4	.0	.0	.2	.0	.0	2.2	
	TOT %	2.5	.8	.2	.8	.9	*	.2	.6	.0	.0	5.9	
2<5	0-3	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.2	
	4-10	.6	.4	.3	.2	.2	.4	.1	.2	.0	.0	2.5	
	11-21	1.5	.3	.3	.8	.3	.7	1.3	1.1	.0	.0	6.5	
	22+	1.2	.0	.6	.3	.1	.3	.8	1.2	.0	.0	4.4	
	TOT %	3.4	.7	1.1	1.3	.6	1.4	2.4	2.5	.0	.0	13.4	
5<10	0-3	.0	.2	.1	.2	.0	.4	.5	.2	.0	.2	1.7	
	4-10	.8	.3	.0	.9	.7	1.0	.7	.4	.0	.0	4.9	
	11-21	1.6	.6	.3	.8	.7	2.1	1.6	2.3	.0	.0	10.2	
	22+	1.1	.3	.3	.9	.9	1.7	3.4	2.2	.0	.0	12.9	
	TOT %	3.5	1.4	.8	2.9	2.2	5.2	8.2	5.3	.0	.2	29.7	
10+	0-3	.0	.2	.1	.2	.5	.3	.9	.2	.0	.7	3.1	
	4-10	1.8	.3	.1	.6	1.1	2.3	1.2	1.7	.0	.0	9.3	
	11-21	2.7	.4	.2	.7	2.1	3.4	4.9	2.7	.0	.0	17.1	
	22+	.3	.2	.2	1.3	.7	1.7	3.4	1.4	.0	.0	9.2	
	TOT %	4.8	1.2	.6	2.8	4.3	7.8	10.5	6.0	.0	.7	38.7	
TOT OBS													589
TOT PCT		16.5	4.6	4.0	11.8	9.1	15.2	22.7	15.3	.0	.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR (GMT)	000 149	190 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	11.4	.8	3.0	9.1	23.5	12.1	3.0	.8	2.3	1.5	67.4	32.6	132
06009	12.9	1.0	4.0	7.9	30.7	5.0	2.0	.0	2.0	2.0	67.3	32.7	101
12015	6.3	.0	4.2	7.0	27.3	14.0	2.8	1.4	.7	2.1	65.7	34.3	143
18021	4.8	1.4	2.7	11.6	30.1	15.8	2.1	.0	.7	.0	69.2	30.8	146
TOT PCT	44 8.4	4 .8	18 3.4	47 9.0	145 27.8	64 12.3	13 2.5	3 .6	7 1.3	7 1.3	352 67.4	170 32.6	522 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	8.2	2.0	9.5	15.0	29.9	35.4	147
06009	9.9	1.7	7.5	13.2	29.8	43.0	121
12015	9.9	3.5	7.0	8.7	33.7	37.2	172
18021	5.8	7.1	9.9	16.9	26.6	39.6	154
TOT PCT	30 8.4	22 3.7	35 9.9	79 13.3	179 30.1	229 38.6	594 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NM >4/8) BY HOUR

HR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	11.4	17.4	37.9	30.3	31.8	132
06009	12.9	18.8	34.7	32.7	32.7	101
12015	6.4	12.1	27.7	40.4	31.9	141
18021	4.9	14.2	38.3	34.8	27.0	141
TOT PCT	43 8.3	79 13.3	178 30.1	179 30.1	158 30.7	515 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	.0	.2	.5	3	.7
40/44	.0	.0	.0	.0	.0	.9	1.4	1.6	17	3.9
35/39	.0	.0	.0	.9	.9	.9	1.8	6.0	46	10.6
30/34	.0	.0	.0	.5	.9	2.3	8.8	15.2	120	27.7
25/29	.0	.0	.2	.7	.5	5.3	7.2	7.1	82	18.9
20/24	.0	.0	.2	1.2	1.6	3.2	4.6	2.5	98	13.4
15/19	.0	.0	.5	.5	.7	4.6	4.6	.2	48	11.1
10/14	.0	.0	.0	1.6	1.6	.5	2.1	.5	27	6.2
5/9	.0	.0	.0	.7	.9	.9	.7	.2	15	3.5
0/4	.0	.0	.2	.0	.5	.2	.7	.7	10	2.3
-1/-4	.0	.0	.0	.0	.5	.0	.0	.2	3	.7
-5/-9	.0	.0	.0	.0	.2	.2	.0	.5	4	.9
TOTAL	0	0	5	26	36	83	139	144	433	100.0
PCT	.0	.0	1.2	6.0	8.3	19.2	32.1	33.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.2	.0	.2	.0	.2	.0	.0
.2	.5	.2	.8	.4	1.4	.2	.0	.0	.2
.7	.7	.8	2.9	1.8	2.3	1.2	.2	.0	.0
7.8	2.5	2.4	2.3	3.2	2.5	2.5	4.3	.0	.2
2.8	.8	1.0	2.7	1.0	2.8	3.9	4.0	.0	.0
1.1	.9	.3	1.0	1.0	2.7	3.7	2.9	.0	.2
1.2	.2	.0	.5	.2	2.8	4.2	2.2	.0	.0
.2	.2	.0	.1	1.0	.6	2.5	1.5	.0	.0
.0	.0	.0	.0	.0	.7	2.3	.5	.0	.0
.0	.0	.0	.0	.0	.7	.9	.5	.0	.2
.0	.0	.0	.0	.0	.7	.0	.0	.0	.0
.0	.0	.0	.0	.2	.1	.6	.1	.0	.0
14.3	5.1	4.8	10.5	8.8	17.4	22.0	16.2	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	44	42	39	26	9	0	-4	26.4	145
06009	47	46	37	28	0	-8	-8	25.4	121
12015	48	40	37	29	7	-7	-7	26.2	175
18021	47	45	40	29	12	7	7	27.4	157
TOT	48	44	38	28	7	-4	-8	25.9	598

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.4	4.4	19.5	37.2	34.5	84	113		
06009	.0	3.5	15.1	23.3	29.1	29.1	81	86		
12015	.0	5.6	9.7	18.9	32.3	35.5	83	124		
18021	.0	14.3	5.4	17.9	28.6	33.9	81	112		
TOT	0	31	36	83	139	146	83	433		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	1	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	2	.0	.4
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.7	.0	4	.0	.9
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.7	2.7	.0	.0	15	.2	3.1
6	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.0	3	.0	.7
5	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.7	.2	.2	13	.7	2.2
4	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.9	.0	.0	16	.9	2.7
3	.0	.0	.0	.0	.0	.0	.0	.4	3.8	.6	.0	.0	22	2.0	2.9
2	.0	.0	.0	.0	.0	.0	.0	.4	3.6	.0	.0	.0	18	1.6	2.5
1	.0	.0	.0	.0	.0	.0	.0	2.2	2.7	.0	.0	.0	22	.2	4.7
0	.0	.0	.0	.0	.0	.0	.0	5.4	1.6	.2	.0	.0	32	.9	6.3
-1	.0	.0	.0	.0	.0	.0	.7	6.3	1.3	.0	.0	.0	37	.9	7.4
-2	.0	.0	.0	.0	.0	.0	1.8	4.5	.4	.0	.0	.0	30	.0	6.7
-3	.0	.0	.0	.0	.0	.0	3.8	2.9	.0	.0	.0	.0	30	.0	6.7
-4	.0	.0	.0	.0	.0	.0	2.0	1.3	.7	.0	.0	.0	18	.0	4.0
-5	.0	.0	.0	.0	.0	.2	4.5	.4	.2	.0	.0	.0	24	.0	5.4
-6	.0	.0	.0	.0	.0	1.1	1.8	.0	.0	.0	.0	.0	13	.0	2.9
-7/-8	.0	.0	.0	.0	.0	3.8	1.1	.0	.0	.0	.0	.0	22	.0	4.9
-9/-10	.0	.0	.0	.0	1.6	3.1	.0	.0	.0	.0	.0	.0	21	.0	4.7
-11/-13	.0	.0	.0	.0	3.6	1.3	.0	.0	.0	.0	.0	.0	22	.0	4.9
-14/-16	.0	.0	.0	3.1	2.5	.4	.0	.0	.0	.0	.0	.0	27	.0	6.1
-17/-19	.0	.0	1.3	3.4	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	4.7
-20/-22	.0	.2	1.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	10	.0	2.2
-23/-25	.0	.7	.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	8	.2	1.6
-26/-30	1.1	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	.0	2.5
<-30	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.7
TOTAL	8	10	16	31	45	70	107	25	89	5	3	445	34	92.4	
PCT	1.8	2.2	3.6	7.0	8.1	10.1	15.7	24.0	20.0	4.6	1.1	.7	100.0	7.6	92.4

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	1.7	1.1	.0	.0	.0	2.7	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.6	2.3	1.1	.0	.0	4.0	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	2.9	.0	.0	.0	2.9	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	2.1	.6	.0	.0	2.7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.8	1.8	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.1	.6	.0	1.7	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.9	1.1	.0	2.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	10.2	5.5	1.7	.0	20.7	.0	1.4	.9	.0	.0	.0	2.3

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.0	.0	.0	.0	.0	.0	1.8	.6	.0	.0	.0	.0	3.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2
5-6	.0	.6	.0	.0	.0	.0	.6	.0	.6	.8	.6	.0	.0	2.0
7	.0	.0	1.2	.6	.0	.0	1.8	.0	.0	1.8	.0	.0	.0	1.8
8-9	.0	.0	.0	.6	.0	.0	.6	.0	.0	1.2	.6	.0	.0	1.8
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.6	.8	.0	.0	1.4
12	.0	.0	.0	2.4	.9	.0	2.9	.0	.0	.6	.8	.0	.0	1.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	1.2	.0	1.8
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0	.6
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	1.2	4.3	.9	.0	6.6	1.8	1.5	5.6	3.2	3.2	.0	15.4

PERIOD: (OVER-ALL) 1963-1971

FEBRUARY

AREA 0003 NE NEWFOUNDLAND COAST
49.9N 53.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.9	.0	.0	.0	.0		.9	.0	.8	.0	.0	.0	.0		1.5
1-2	.0	.5	.0	.0	.0	.0		.5	.0	.6	.0	.0	.0	.0		.6
3-4	.0	.5	.0	.6	.0	.0		1.1	.0	.2	.6	.0	.0	.0		.8
5-6	.0	.0	.5	.6	.0	.0		1.1	.0	.6	.6	.6	.0	.0		1.8
7	.0	.0	1.2	.6	.0	.0		1.8	.0	.6	.6	.6	.0	.0		1.2
8-9	.0	.0	1.1	.0	.0	.0		1.1	.0	.8	.8	.0	.0	.0		1.5
10-11	.0	.0	.0	.5	.0	.0		.5	.0	.2	.6	.0	.0	.0		.8
12	.0	.0	.0	.6	.0	.0		.6	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.6	.0	.0		.6	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	1.8	2.7	3.5	.0	.0		8.1	.0	.9	4.1	2.6	.6	.0		8.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.5	.0	.0	.0		.5	.0	.6	.0	.0	.0	.0		.6	
1-2	.0	.5	.6	.0	.0	.0		1.1	.0	.3	2.0	.0	.0	.0		2.3	
3-4	.0	.6	3.5	.5	.0	.0		4.6	.0	.0	.9	.9	.0	.0		1.8	
5-6	.0	.0	1.1	1.8	1.2	.0		4.1	.0	.0	.2	.6	.0	.0		.8	
7	.0	.0	.6	1.8	1.2	.0		3.7	.0	.0	.2	.6	.0	.0		.8	
8-9	.0	.0	1.1	.5	.0	.0		1.5	.0	.0	.2	1.8	.0	.0		2.0	
10-11	.0	.0	1.7	2.3	.5	.0		4.4	.0	.0	.6	.8	.2	.0		1.5	
12	.0	.0	.6	1.8	.0	.0		2.4	.0	.0	.0	.6	.0	.0		.6	
13-16	.0	.0	.6	.6	1.1	.0		2.3	.0	.0	.6	.8	.8	.0		2.1	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	1.5	.2	.0		1.7	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	1.1	10.2	9.3	4.0	.0		24.5	.0	.9	4.6	7.6	1.1	.0		14.2	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	3.7	1.2	.0	.0	.0	4.9	
1-2	1.8	4.9	4.9	.0	.0	.0	11.6	
3-4	.0	1.8	9.1	3.0	.0	.0	14.0	
5-6	.0	1.2	6.1	4.3	1.8	.0	13.4	
7	.0	.0	7.9	4.9	1.2	.0	14.0	
8-9	.0	.0	3.0	4.9	.6	.0	8.5	
10-11	.0	.0	4.9	7.3	.6	.0	12.8	
12	.0	.0	.6	6.1	1.2	.0	7.9	
13-16	.0	.0	1.8	3.0	3.7	.0	8.5	
17-19	.0	.0	.0	2.4	1.8	.0	4.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.8	11.6	39.6	34.0	11.0	.0	100.0	164

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	2.7	4.3	4.7	6.3	3.5	2.3	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	6
6-7	.0	.4	2.3	3.9	7.0	3.5	7.4	3.1	5.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	85	9
8-9	.0	.0	.4	.8	1.2	.8	2.0	2.3	2.7	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	11
10-11	.0	.0	.0	2.0	2.7	.0	1.2	.8	3.5	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	11
12-13	.0	.0	.0	.0	.4	1.2	.4	.0	.8	.4	.0	.0	1.2	.0	.0	.0	.0	.0	.0	11	16
>13	.0	.0	.0	.0	.8	1.2	.0	.0	2.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	12	12
INDET	1.2	2.0	.4	.0	.4	.0	3.1	.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	7
TOTAL	5	13	19	29	48	26	42	19	39	11	2	0	3	0	0	0	0	0	0	256	9
PCT	2.0	5.1	7.4	11.3	18.8	10.2	16.4	7.4	15.2	4.3	.8	.0	1.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1881-1971

MARCH

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 53.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FR7G PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WEA
N	6.5	.0	5.3	3.6	27.5	1.4	.0	44.3	.7	.0	7.7	.0	.0	.0	47.2
NE	15.9	.0	9.3	1.4	20.0	3.5	.0	46.7	2.3	.0	9.3	.0	.0	.0	41.7
E	14.4	.0	10.0	.0	10.0	.0	.0	34.4	1.4	.0	26.3	.0	.0	.0	37.8
SE	11.5	.0	6.3	.0	28.8	.0	.0	42.4	4.7	.0	18.3	.0	.0	.0	34.6
S	.7	.0	3.0	1.4	14.9	.0	.0	19.9	.0	.0	13.2	1.0	1.4	.0	64.5
SW	.8	.8	.0	.0	17.9	.0	.0	18.6	1.5	.0	5.4	1.7	1.9	.0	70.8
W	.6	.9	2.1	.0	18.9	.0	.0	22.5	.6	.0	1.5	.0	2.1	3.4	69.7
NW	1.3	.0	1.6	2.1	23.3	1.6	.0	30.0	3.7	.0	15.9	.0	1.1	.0	49.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	33.3	.0	.0	33.3	.0	.0	11.1	.0	.0	.0	55.6
TOT PCT	5.2	.3	3.9	1.1	20.4	.8	.0	31.0	1.7	.0	10.2	.4	1.0	.6	55.2
TOT OBS:	714														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FR7G PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WEA
00003	4.2	.5	3.1	2.1	18.3	2.1	.0	30.4	.5	.0	7.3	.5	2.6	.0	58.6
06009	8.1	.0	2.0	2.0	26.3	1.0	.0	38.4	4.0	.0	8.1	1.0	1.0	.0	47.5
12015	3.8	.0	5.5	.4	20.3	.4	.0	29.1	.8	.0	11.4	.0	.0	1.3	57.4
18021	6.1	.5	3.6	.5	19.4	.0	.0	29.1	2.6	.0	12.2	.5	.5	.5	54.6
TOT PCT	5.1	.3	3.9	1.1	20.3	.8	.0	30.7	1.7	.0	10.1	.4	1.0	.6	55.6
TOT OBS:	723														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	4.1	7.0	2.9	.1	.3		14.9	16.1	13.3	17.7	14.4	28.2	15.6	14.4	11.0	16.0	
NE	.8	2.8	4.8	3.0	.4	.0		11.7	16.7	13.3	10.0	9.2	13.7	13.2	12.2	6.8	14.6	
E	.8	2.7	2.6	1.2	.3	.0		7.7	13.8	5.2	5.5	3.2	4.8	8.2	13.1	7.5	11.8	
SE	.5	2.8	2.0	.9	.5	.0		6.7	15.0	6.9	5.5	5.3	1.6	6.3	10.0	5.5	9.0	
S	.6	3.6	3.3	2.0	.6	.1		10.3	15.9	9.6	10.0	10.2	5.6	9.0	10.3	14.3	10.1	
SW	1.5	5.9	7.5	3.2	.1	.0		18.2	13.6	20.3	26.4	18.3	15.3	17.6	18.9	16.7	12.6	
W	.5	3.5	7.1	3.3	1.7	.0		16.3	18.1	19.1	16.4	21.5	16.1	13.1	10.3	16.2	19.4	
NW	.4	4.0	4.9	2.9	.6	.1		13.0	16.8	12.2	8.6	15.1	11.3	15.0	10.8	19.5	6.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2							1.2	.0	.0	.0	2.8	3.2	1.9	.0	2.6	.0	
TOT OBS	51	222	297	146	33	4	753		15.7	148	55	71	31	155	90	114	89	
TOT PCT	6.8	29.5	39.4	19.4	4.4	.5		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	1.9	6.9	4.3	1.6	.3		14.9	16.1	14.5	18.6	15.2	13.2		
NE	1.4	4.6	4.0	1.6	.1		11.7	16.7	12.4	10.5	12.9	10.2		
E	1.7	3.8	1.5	.6	.1		7.7	13.8	5.3	3.7	10.0	9.4		
SE	.9	3.4	1.6	.6	.1		6.7	15.0	6.5	4.2	7.7	7.0		
S	1.6	4.8	2.1	1.4	.4		10.3	15.9	9.7	8.8	9.5	12.4		
SW	3.6	8.5	5.1	1.0	.8		18.2	13.6	21.9	17.4	18.1	14.9		
W	1.4	6.3	5.4	2.4	.7		16.3	18.1	18.3	19.9	12.0	17.6		
NW	1.8	4.7	4.9	1.3	.3		13.0	16.8	11.2	14.0	13.5	13.8		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	1.2						1.2	.0	.0	2.9	1.2	1.5		
TOT OBS	117	324	217	79	16	753		15.7	203	102	245	203		
TOT PCT	15.3	43.0	28.8	10.5	2.1		100.0		100.0	100.0	100.0	100.0		

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	.0	4.9	35.5	37.4	15.8	5.9	.5	15.4	100.0	203
06009	2.9	4.9	21.6	37.3	23.5	9.8	.0	18.0	100.0	102
12015	1.2	6.5	31.4	38.0	20.0	2.4	.4	14.7	100.0	245
18021	1.5	5.4	25.1	44.3	20.2	2.5	1.0	16.0	100.0	203
TOT	9	42	222	297	146	33	4	15.7		753
PCT	1.2	5.6	29.5	39.4	19.4	4.4	.5	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	1.7	.8	2.4	11.0		6.8
NE	.9	.4	1.8	8.0		7.0
E	.4	.2	.6	3.5		7.0
SE	1.1	.1	.5	4.0		6.5
S	1.0	.5	2.1	5.6		6.6
SW	3.2	1.1	5.6	8.9		5.9
W	3.8	2.7	4.3	7.9		5.4
NW	1.6	1.1	2.8	9.4		6.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.4	.2	1.2		6.7
TOT OBS	67	36	101	296	500	6.3
TOT PCT	13.4	7.2	20.2	59.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	2.3	.7	1.1	1.7	5.4	1.3	.5	.2	.2	.0	3.0	
NE	1.7	.6	1.0	1.6	1.8	2.1	.5	.0	.0	.0	1.9	
E	1.9	.7	.0	.2	.3	.6	.5	.2	.2	.0	.8	
SE	.9	.0	.2	1.3	.5	.9	.4	.0	.1	.0	1.5	
S	.8	.4	.4	1.2	1.6	.9	.4	.0	.3	.2	3.1	
SW	1.0	.0	1.3	2.2	3.6	2.4	.3	.0	.3	.1	7.5	
W	.6	.3	1.3	1.8	3.9	1.8	.2	.0	.4	.0	8.4	
NW	2.3	.9	1.4	1.5	2.8	.9	.4	.2	.4	.2	3.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.0	.0	.4	.0	.4	.0	.0	.0	.6	
TOT OBS	58	13	34	57	101	53	17	3	9	2	133	500
TOT PCT	11.6	2.6	6.8	11.4	20.2	10.6	3.4	.6	1.8	.4	30.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= NR >10	= DR >5	= DR >2	VSBY (NM) = NR >1	= DR >1/2	= NR >1/4	= DR >50YD	= DR >0
= NR >6500	1.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2
= NR >5000	1.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8
= NR >3500	2.2	5.6	6.2	6.2	6.2	6.2	6.2	6.2
= NR >2000	4.6	12.8	15.2	16.0	16.6	16.6	16.6	16.6
= NR >1000	8.2	24.6	30.0	33.6	36.2	36.4	36.8	36.8
= NR >600	9.6	30.6	38.0	43.6	47.2	47.6	48.0	48.0
= NR >300	9.6	32.0	40.4	49.2	53.8	54.4	54.8	54.8
= NR >150	9.6	32.0	40.8	50.8	55.8	56.8	57.4	57.4
= NR >0	9.6	32.2	41.6	52.6	59.4	64.8	68.4	69.2
TOTAL	48	161	208	263	297	324	342	346

TOTAL NUMBER OF OBS: 500

PCT FREQ NH <5/8: 30.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
11.5	4.9	6.4	5.4	2.7	3.9	5.6	6.6	41.4	11.5	514

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.2	.9	.8	.4	.1	.3	.5	.9	.0	.0	5.2	
	NO PCP	.4	.7	1.8	.6	.6	.6	.1	1.3	.0	.1	6.2	
	TOT %	1.6	1.6	2.6	1.0	.7	.8	.6	2.2	.0	.1	11.3	
1/2<1	PCP	1.1	1.8	.2	.7	.3	.5	.6	.4	.0	.0	5.6	
	NO PCP	.1	.3	.1	.1	.2	.0	.1	.6	.0	.0	1.5	
	TOT %	1.2	2.1	.3	.7	.5	.5	.8	1.0	.0	.0	7.1	
1<2	PCP	1.2	1.3	.3	.6	.4	1.0	.9	.8	.0	.0	6.4	
	NO PCP	.5	.1	.0	.2	.2	.4	.1	.2	.0	.0	1.8	
	TOT %	1.7	1.4	.3	.8	.6	1.4	1.0	1.1	.0	.0	8.3	
2<5	PCP	1.2	.4	.1	.2	.3	.8	.7	.7	.0	.1	4.6	
	NO PCP	.4	.8	.0	.2	.6	1.3	.6	.6	.0	.0	3.6	
	TOT %	1.5	.4	.1	.4	.9	2.1	1.3	1.3	.0	.1	8.3	
5<10	PCP	1.7	1.2	1.2	.9	.8	.6	.9	.7	.0	.3	8.4	
	NO PCP	5.6	4.6	2.3	1.9	3.9	6.6	7.6	4.2	.0	.3	36.8	
	TOT %	7.3	5.8	3.5	2.8	4.7	7.2	8.5	4.9	.0	.6	45.2	
10+	PCP	.1	.0	.0	.0	.1	.7	.0	.4	.0	.0	.7	
	NO PCP	1.1	.7	.6	.9	2.8	6.0	4.1	2.3	.0	.4	19.0	
	TOT %	1.2	.7	.6	.9	2.9	6.7	4.1	2.7	.0	.4	19.7	
TOT OBS		14.5	12.1	7.3	6.7	10.4	18.2	16.3	13.2	.0	1.3	100.0	714
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.3	.3	.0	.0	.0	.3	.0	.1	1.1	
	4-10	.3	.3	.5	.1	.4	.6	.1	.6	.0		2.8	
	11-21	.7	.7	1.5	.5	.2	.3	.0	1.0	.0		4.9	
	22+	.7	.5	.3	.2	.1	.0	.5	.4	.0		2.5	
	TOT %	1.6	1.6	2.6	1.0	.7	.8	.6	2.2	.0	.1	11.3	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.7	.0	.0	.1	
	4-10	.1	.1	.0	.4	.3	.3	.1	.5	.0		1.8	
	11-21	.6	1.5	.0	.3	.2	.2	.1	.4	.0		3.4	
	22+	.4	.4	.3	.8	.4	.5	.2	.2	.0		1.8	
	TOT %	1.2	2.1	.3	.7	.5	.5	.8	1.0	.0	.0	7.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	4-10	.4	.2	.0	.1	.1	.5	.4	.3	.0		1.8	
	11-21	.5	.7	.1	.5	.4	.7	.4	.4	.0		3.6	
	22+	.8	.6	.1	.3	.1	.3	.2	.7	.0		2.7	
	TOT %	1.7	1.4	.3	.8	.6	1.4	1.0	1.1	.0	.0	8.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.3	
	4-10	.2	.2	.0	.1	.5	.9	.6	.2	.0		2.7	
	11-21	1.2	.2	.1	.1	.2	.4	.0	.3	.0		2.5	
	22+	.1	.0	.0	.3	.2	.7	.6	.9	.0		2.8	
	TOT %	1.5	.4	.1	.4	.9	2.1	1.3	1.3	.0	.1	8.3	
5<10	0-3	.3	.6	.6	.2	.4	.7	.1	.0	.0	.6	3.4	
	4-10	2.3	1.5	1.5	1.6	1.3	1.9	1.9	2.0	.0		13.9	
	11-21	3.6	1.6	.7	.2	1.2	3.3	4.2	1.8	.0		16.5	
	22+	1.2	2.1	.8	.8	1.9	1.4	2.3	1.2	.0		11.5	
	TOT %	7.3	5.8	3.5	2.8	4.7	7.2	8.5	4.9	.0	.6	45.2	
10+	0-3	.1	.1	.0	.0	.2	.8	.2	.8	.0	.4	2.0	
	4-10	.6	.4	.2	.5	1.1	1.9	.6	.4	.0		5.7	
	11-21	.2	.2	.2	.4	1.1	2.6	2.2	1.4	.0		8.3	
	22+	.3	.0	.1	.0	.6	.9	1.0	.9	.0		3.8	
	TOT %	1.2	.7	.6	.9	2.9	6.2	4.1	2.7	.0	.4	19.7	
TOT OBS		14.5	12.1	7.3	6.7	10.4	18.2	16.3	13.2	.0	1.3	100.0	714
TOT PCT													

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	9.0	.7	6.0	15.7	18.7	6.7	3.7	.7	1.5	.0	62.7	37.3	134
06009	17.4	2.2	5.4	9.8	23.9	8.7	.0	.0	2.2	.0	69.6	30.4	92
12015	10.9	2.9	6.6	10.9	16.8	13.1	4.4	1.5	2.2	1.5	70.8	29.2	137
18021	11.1	4.2	8.3	8.3	21.5	12.5	4.2	.0	1.4	.0	71.5	28.5	144
TOT	59	13	34	57	101	53	17	3	9	7	348	159	507
PCT	11.6	2.6	6.7	11.2	19.9	10.5	3.4	.6	1.8	.4	68.6	31.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	6.8	7.3	9.4	9.4	49.0	18.2	192
06009	9.1	8.1	17.1	8.1	31.3	31.3	99
12015	13.1	6.8	6.3	5.5	52.3	16.0	237
18021	14.8	6.6	7.1	10.2	41.3	19.9	196
TOT	82	51	59	59	330	143	724
PCT	11.3	7.0	8.1	8.1	45.6	19.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	9.1	19.7	47.0	20.5	32.6	132
06009	17.6	30.8	44.0	26.4	29.7	91
12015	11.2	26.9	42.5	29.9	27.6	134
18021	11.2	28.7	52.4	22.4	25.2	143
TOT	59	131	234	123	143	500
PCT	11.8	26.2	46.8	24.6	28.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
45/49	.0	.0	.2	.0	.0	.2	.2	.2	4	1.0
40/44	.0	.0	.2	.2	.2	.7	1.4	.5	14	3.3
35/39	.0	.2	.0	.2	1.2	3.6	1.9	5.5	53	12.6
30/34	.0	.0	.2	1.0	1.4	6.2	7.9	27.4	185	44.0
25/29	.0	.0	.0	1.0	1.2	6.9	6.2	5.7	88	21.0
20/24	.0	.0	.0	.7	.7	3.8	3.3	3.3	48	11.4
15/19	.0	.0	.0	.0	.7	.7	1.4	.2	13	3.1
10/14	.0	.0	.0	.0	.7	1.4	.7	.2	13	3.1
5/9	.0	.0	.0	.0	.0	.0	.2	.0	1	.2
TOTAL	0	1	3	12	26	99	98	181	420	100.0
PCT	.0	.2	.7	2.9	6.2	23.6	23.3	43.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.0	.0	.0	.0	.0	.0	.1	.0	.0
.0	.0	.0	.2	.5	.0	.0	.2	.0	.0
.0	.2	.4	.3	1.0	.7	.4	.0	.0	.2
1.2	1.5	1.4	.9	1.7	3.4	.8	1.7	.0	.0
8.4	7.0	2.3	3.0	3.7	6.7	5.9	6.5	.0	.5
3.6	2.1	.2	.8	2.7	4.0	3.6	3.7	.0	.2
1.9	.4	.0	.0	.0	1.3	5.5	2.3	.0	.0
.7	.0	.0	.0	.0	1.0	1.4	.0	.0	.0
.2	.0	.0	.0	.0	.9	1.7	.2	.0	.0
.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
16.2	11.4	4.3	5.2	9.6	18.1	19.5	14.8	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	42	40	37	30	16	12	9	28.9	210
06009	41	40	37	30	12	6	6	28.2	102
12015	46	43	37	31	16	10	9	29.5	248
18021	50	45	40	32	20	11	8	30.7	207
TOT	50	42	38	31	14	10	6	29.5	767

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.8	10.5	25.4	23.7	38.6	84	114		
06009	.0	.0	4.0	16.0	32.0	48.0	87	75		
12015	.0	3.5	3.5	26.5	16.8	49.6	86	113		
18021	.0	8.4	5.9	23.5	24.4	37.8	82	119		
TOT	0	16	26	99	99	181	85	421		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 17	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1	.0	.4
11/13	.0	.0	.0	.0	.0	.0	.0	.4	.8	1.2	.0	6	.8	1.5
9/10	.0	.0	.0	.0	.0	.0	.0	.8	1.5	.0	.0	6	.0	2.3
7/8	.0	.0	.0	.0	.0	.0	1.5	3.5	.4	.0	.0	14	.0	5.4
6	.0	.0	.0	.0	.0	.0	2.3	1.5	.0	.0	.0	10	.8	3.1
5	.0	.0	.0	.0	.0	.0	.0	2.7	1.2	.4	.0	11	1.2	3.1
4	.0	.0	.0	.0	.0	.0	.8	2.7	.4	.0	.0	10	.8	3.1
3	.0	.0	.0	.0	.0	1.9	8.1	.8	.0	.0	.0	28	1.9	8.8
2	.0	.0	.0	.0	.0	6.2	3.8	.4	.0	.0	.0	27	1.9	8.5
1	.0	.0	.0	.0	.0	8.5	1.9	.8	.0	.0	.0	29	.8	10.4
0	.0	.0	.0	.0	.4	4.2	.4	.0	.0	.0	.0	13	.4	4.6
-1	.0	.0	.0	.0	.8	3.8	.0	.0	.0	.0	.0	12	.0	4.6
-2	.0	.0	.0	.0	4.2	3.5	.0	.0	.0	.0	.0	20	.0	7.7
-3	.0	.0	.0	.0	4.6	1.5	.0	.0	.0	.0	.0	16	.4	5.8
-4	.0	.0	.0	.0	4.2	3.1	.4	.0	.0	.0	.0	20	.0	7.7
-5	.0	.0	.0	.0	1.5	.0	.4	.0	.0	.0	.0	6	.4	1.9
-6	.0	.0	.0	1.2	1.2	.0	.4	.0	.0	.0	.0	7	.4	2.3
-7/-8	.0	.0	.0	.0	.4	.8	.0	.0	.0	.0	.0	3	.0	1.2
-9/-10	.0	.0	.8	2.7	.0	.0	.0	.0	.0	.0	.0	9	.0	3.5
-11/-13	.0	.0	.8	1.2	.0	.0	.0	.0	.0	.0	.0	5	.0	1.9
-14/-16	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	1.2
-17/-19	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.8
-20/-22	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.4
-26/-30	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.4
TOTAL	1	3	7	15	46	87	64	25	8	3	1	260	25	235
PCT	.4	1.2	2.7	5.8	17.7	33.5	24.6	9.6	3.1	1.2	.4	100.0	9.6	90.4

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.9	.0	.0	.0	.0	.9	.0	.9	.2	.9	.0	.0	.0	.0	4.3
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
3-4	.0	.0	3.4	1.7	.0	.0	5.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.4	.9	.0	.0	.0	1.3
7	.0	.0	.9	.0	.0	.0	.9	.0	.0	.9	.0	.9	.0	.0	.0	1.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.9
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
13-16	.0	.0	.9	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TNT PCT	.0	.9	5.8	2.4	.0	1.7	10.7	.9	3.6	3.8	.9	1.7	.0	.0	10.9	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.2	.0	.0	.0	.0	1.1
1-2	.0	.6	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.9
3-4	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.9
5-6	.0	.0	.6	.9	.0	.0	1.5	.0	.0	.0	.9	.0	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.2	.9	.0	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TNT PCT	.0	.6	1.5	.9	.9	.0	3.8	.0	1.7	.2	2.8	1.7	.0	.0	6.4	

PERIOD: (OVER-ALL) 1963-1971

MARCH

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 53.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	.9	3.2	.6	.0	.0	.0	4.7	.0	.2	.9	.0	.0	.0	1.1	
1-2	.0	2.6	.6	.0	.0	.0	3.2	.0	.0	1.3	.0	.0	.0	1.3	
3-4	.0	.0	.9	.0	.0	.0	.9	.0	1.7	1.7	.9	.0	.0	4.3	
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	2.6	.0	.0	2.6	
7	.0	.9	.0	.0	.0	.0	.9	.0	.0	.9	.9	.0	.0	1.7	
8-9	.0	.0	.9	.6	.0	.0	1.5	.0	.0	.5	1.1	.0	.0	1.9	
10-11	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	.4	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	1.7	
13-16	.0	.0	.0	.0	.9	.9	1.7	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	6.6	3.8	1.9	.9	.9	15.0	.0	1.9	5.6	7.7	.4	.0	15.4	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	.0	.9	.0	.0	.0	.0	.9	.0	4.3	.9	.0	.0	.0	5.1	
1-2	.0	.0	.6	.0	.0	.0	.6	.0	.9	.9	.0	.0	.0	1.7	
3-4	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	2.1	.9	.0	.0	3.0	
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	1.1	2.6	.0	.0	3.6	
7	.0	.0	.9	.0	.0	.0	.9	.0	.0	5.1	3.4	.0	.0	8.5	
8-9	.0	.0	.9	1.5	.0	.0	2.4	.0	.0	.9	.0	.0	.0	.9	
10-11	.0	.0	.0	.9	.9	.0	1.7	.0	.0	.0	1.1	.0	.0	1.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.9	4.3	3.0	3.0	.0	11.1	.0	5.1	10.9	7.9	.0	.0	23.9	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	3.4	13.7	3.4	.0	.0	.0	20.5	
1-2	.9	5.1	3.4	.0	.0	.0	9.4	
3-4	.0	1.7	10.3	4.3	.0	.0	16.2	
5-6	.0	.0	4.3	7.7	.0	.0	12.0	
7	.0	.9	8.5	4.3	.9	.0	14.5	
8-9	.0	.0	4.3	3.4	1.7	.0	9.4	
10-11	.0	.0	.0	4.1	.9	.0	6.0	
12	.0	.0	.0	1.7	.9	.0	2.6	
13-16	.0	.0	1.7	.9	1.7	.9	5.1	
17-19	.0	.0	.0	.0	.9	.0	.9	
20-22	.0	.0	.0	.0	.9	.9	1.7	
23-25	.0	.0	.0	.0	.9	.9	1.7	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.3	21.4	35.9	27.4	8.5	2.6	100.0	117

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	3.8	9.3	4.4	3.3	1.1	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	4
6-7	.0	.5	1.6	3.8	6.0	4.4	2.2	3.3	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	42	8
8-9	.0	.0	2.2	2.2	2.7	1.1	3.3	3.8	3.8	.0	.5	.5	.0	.5	.0	.0	.0	.0	.0	38	10
10-11	.0	.0	1.1	1.1	2.2	1.6	.5	.5	3.3	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	23	11
12-13	.0	.0	.0	1.1	.0	.0	.0	.0	2.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	13
>13	.0	.0	.0	.0	.0	.5	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	3	14
INDET	5.5	1.6	.0	2.7	1.1	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	3
TOTAL	13	11	26	28	28	17	12	14	21	4	4	3	0	1	0	0	0	0	0	182	8
PCT	7.1	6.0	14.3	15.4	15.4	9.3	6.6	7.7	11.5	2.2	2.2	1.6	.0	.5	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1942-1971
(OVER-ALL) 1881-1971

APRIL

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 53.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.6	.9	5.0	.0	28.2	1.3	.6	39.5	1.1	.0	10.7	.0	.7	.0	47.7
NE	13.1	.0	7.2	.0	19.0	.0	.4	35.2	.4	.0	10.1	1.7	3.8	.0	44.7
E	6.1	1.8	4.9	2.4	3.7	.0	.0	18.9	1.8	.0	21.3	.0	1.8	.0	36.1
SE	5.7	1.4	2.8	2.8	9.2	.0	.0	21.3	1.4	.0	31.9	.0	.0	.0	45.4
S	4.6	2.0	.0	.0	8.8	.0	.0	13.4	.9	.0	12.0	1.1	.0	.0	72.6
SW	.0	.0	.0	1.2	5.2	.0	.0	6.4	.0	.0	4.3	.0	.0	.0	89.3
W	3.6	1.4	.0	.0	3.2	.0	.0	8.2	1.4	.0	.0	.0	.0	.0	90.6
NW	.9	.9	4.6	1.2	15.0	1.4	.0	23.7	2.6	.0	9.0	.0	.0	.0	64.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.0	.0	.0	.0	10.0	.0	.0	20.0	.0	.0	30.0	.0	.0	.0	50.0
TOT PCT	4.6	1.0	3.0	.7	13.6	.5	.2	22.6	1.2	.0	10.7	.3	.7	.0	64.5
TOT OBS:	605														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.9	1.9	5.6	.0	14.8	.0	.0	25.9	1.2	.0	11.7	.0	.0	.0	61.1
06009	8.3	1.2	2.4	1.2	11.9	.0	.0	23.8	1.2	.0	8.3	.0	2.4	.0	64.3
12015	4.0	.0	1.5	1.5	12.6	1.5	.5	21.6	1.5	.0	11.1	.5	.5	.0	64.8
18021	2.8	1.1	2.3	.0	14.2	.0	.0	19.3	.6	.0	11.9	.6	.6	.0	67.0
TOT PCT	4.5	1.0	2.9	.6	13.5	.5	.2	22.4	1.1	.0	11.1	.3	.6	.0	64.4
TOT OBS:	621														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	4.5	7.7	7.4	1.6	.0		21.7	19.3		21.2	26.4	18.4	24.2	18.4	25.3	19.8	25.7
NE	.5	7.0	4.7	1.3	.1	.0		9.7	14.0		10.4	5.5	10.5	5.8	4.3	10.6	14.0	15.2
E	1.0	2.5	2.8	.1	.1	.0		6.5	10.2		8.6	4.1	3.1	9.2	9.5	7.8	3.1	4.7
SE	.1	2.6	2.5	.8	.1	*		6.2	13.6		8.2	6.8	3.5	6.7	5.6	3.8	7.4	6.2
S	1.5	4.3	7.3	1.5	.4	.1		15.2	13.2		13.3	25.5	12.7	8.3	14.0	14.7	13.6	12.7
SW	.5	4.8	4.3	2.0	.0	.0		13.6	13.6		9.3	10.0	18.9	22.5	15.7	13.1	16.0	8.7
W	.3	3.2	5.4	2.2	.1	.0		11.1	15.1		11.1	9.1	14.5	5.8	13.2	9.4	9.8	12.7
NW	.4	3.3	6.5	3.2	.9	.0		14.3	16.9		17.0	10.9	14.9	17.5	12.2	15.3	14.5	12.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0		.9	1.8	3.5	.0	3.1	.0	1.9	1.4
TOT OBS	41	180	274	119	21	1	638		15.0		113	55	57	30	129	80	105	69
TOT PCT	6.4	28.2	43.3	18.7	3.3	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WNO DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	2.1	6.7	8.0	5.0	.0		21.7	19.3	22.9	20.4	21.1	22.1		
NE	1.6	5.3	1.8	.9	.0		9.7	14.0	8.8	8.9	6.7	14.5		
E	2.2	3.3	.9	.1	.0		6.5	10.2	7.1	5.2	8.9	3.7		
SE	.9	3.6	1.3	.4	*		6.2	13.6	7.7	4.6	4.9	6.9		
S	4.0	6.7	3.6	.8	.1		15.2	13.2	17.3	11.2	16.7	13.2		
SW	2.7	6.6	3.8	.5	.0		13.6	13.6	9.5	20.1	14.7	13.1		
W	1.6	5.2	3.3	1.1	.0		11.1	15.1	10.4	11.5	11.7	10.9		
NW	1.9	5.7	4.5	2.2	.0		14.3	16.9	15.0	15.8	13.4	13.8		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	1.7						1.7	.0	1.2	2.3	1.9	1.7		
TOT OBS	119	275	173	70	1	638		15.0	168	87	209	174		
TOT PCT	18.7	43.1	27.1	11.0	.2		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1942-1971
(COVER-ALL) 1881-1971

APRIL

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 53.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.2	3.6	30.4	38.1	23.8	2.4	.6	15.7	100.0	168
0600	2.3	4.6	25.3	44.8	18.4	4.6	.0	14.9	100.0	87
1200	1.9	7.2	28.7	41.6	18.2	2.4	.0	14.5	100.0	209
1800	1.7	2.9	27.0	49.4	14.4	4.6	.0	15.1	100.0	174
TOT	11	30	180	276	119	21	1	15.0		638
PCT	1.7	4.7	28.2	43.3	18.7	3.3	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	.7	3.2	18.6		7.2
NE	1.3	.3	1.7	6.3		6.4
E	.4	.4	1.0	4.6		7.1
SE	.6	.5	.4	4.0		6.7
S	2.9	.4	2.4	7.5		5.9
SW	4.2	1.1	4.6	3.7		4.8
W	4.4	1.1	2.7	3.4		4.3
NW	1.2	.9	2.4	10.1		6.9
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.2	1.2		6.0
TOT OBS	81	26	90	288	485	6.2
TOT PCT	16.7	5.4	18.6	59.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/R)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
4.2	1.2	3.0	3.7	3.3	3.7	1.0	.0	.4	.0	3.2	
.9	1.1	1.0	1.6	1.3	.6	.4	.0	.4	.0	2.3	
1.5	.7	.2	.4	1.9	.2	.3	.0	.2	.0	1.2	
1.1	.7	.5	.1	.9	.4	.3	.0	.1	.2	1.7	
2.3	.0	.4	1.3	1.8	.7	.4	.0	.4	.2	5.7	
.8	.2	.7	.7	1.9	.3	.0	.4	.2	.2	8.2	
.0	.0	.4	.4	1.7	1.8	.2	.0	.4	.2	6.7	
1.5	.2	2.1	.7	3.2	2.8	.1	.2	.1	.2	3.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.8	.0	.0	.0	.4	.0	.0	.0	.0	.0	.6	
6.4	1.6	3.8	4.3	7.4	5.8	1.4	1	11	5	161	485
13.2	3.2	7.8	8.9	15.3	12.0	2.9	.2	2.3	1.0	33.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/R) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50VD	>0
>6500	2.3	3.1	3.3	3.3	3.3	3.3	3.3	3.3
>5000	2.5	3.3	3.5	3.5	3.5	3.5	3.5	3.5
>3500	3.7	6.0	6.4	6.4	6.4	6.4	6.4	6.4
>2000	9.9	17.7	18.3	18.3	18.3	18.3	18.3	18.3
>1000	14.8	30.4	33.1	33.1	33.5	33.5	33.5	33.5
>600	15.6	34.9	39.0	41.3	42.1	42.7	42.7	42.7
>300	15.6	36.8	43.3	48.5	49.7	50.5	50.5	50.5
>150	15.6	36.8	44.1	50.1	52.2	53.8	53.8	53.8
>0	15.6	37.0	45.6	53.8	58.3	62.4	65.9	66.9
TOTAL	76	180	222	262	284	304	321	326

TOTAL NUMBER OF OBS: 487

PCT FREQ NH <5/8: 33.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
15.8	6.7	4.7	3.9	1.8	4.1	5.5	5.1	39.8	493

APRIL

PERIOD: (PRIMARY) 1942-1971
(OVER-ALL) 1861-1971AREA 0003 NE NEWFOUNDLAND COAST
49.0N 53.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.5	.3	.0	.2	.3	.0	.0	.2	.0	.0	2.5	
	NO PCP	1.4	.2	.9	1.0	1.3	.7	.0	.6	.0	.5	6.1	
	TOT %	2.9	.6	.9	1.2	1.6	.7	.0	.7	.0	.5	8.6	
1/2<1	PCP	1.0	.4	.0	.2	.2	.7	.0	.6	.0	.0	2.6	
	NO PCP	.7	.7	.2	.5	.3	.7	.0	.3	.0	.0	1.8	
	TOT %	1.7	.5	.2	.7	.5	.4	.0	.9	.0	.0	4.5	
1<2	PCP	3.1	1.3	.4	.2	.0	*	.1	.5	.0	.0	5.8	
	NO PCP	.1	.7	.1	.2	.2	.7	.0	*	.0	.0	1.0	
	TOT %	3.2	1.5	.5	.5	.2	.7	.1	.6	.0	.0	6.8	
2<5	PCP	1.6	.8	.5	.2	.6	.4	.2	.8	.0	.3	5.3	
	NO PCP	1.6	.7	.5	.2	.0	.0	.0	.2	.0	.2	3.3	
	TOT %	3.2	1.4	1.0	.4	.6	.4	.2	.9	.0	.5	8.6	
5<10	PCP	1.7	1.0	.4	.4	.7	.9	.5	1.2	.0	.0	6.1	
	NO PCP	4.1	2.8	3.1	1.2	5.1	4.4	4.2	5.7	.0	.2	33.0	
	TOT %	7.5	3.8	3.5	1.6	5.9	4.9	4.7	6.8	.0	.2	39.1	
10+	PCP	.1	*	.0	.0	.0	.0	.7	.2	.0	.0	.5	
	NO PCP	3.9	1.9	.6	1.5	5.7	7.4	6.4	4.1	.0	.5	52.0	
	TOT %	4.0	2.0	.6	1.5	5.7	7.4	6.5	4.3	.0	.5	52.5	
TOT OBS													606
TOT PCT													22.7 9.8 6.8 5.8 14.5 13.4 11.6 14.3 .0 1.7 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.2	.0	.0	.0	.0	.2	.0	.5	.8	
	4-10	.8	.2	.6	.2	.5	.0	.0	.2	.0		2.5	
	11-21	.9	.2	.2	.7	.9	.2	.0	.4	.0		3.4	
	22+	1.1	.2	.0	.3	.2	.0	.0	.0	.0		1.8	
	TOT %	2.9	.6	.9	1.2	1.6	.2	.0	.7	.0	.5	8.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.3	.2	.3	.0	.2	.0	.0	.0		1.1	
	11-21	.2	.2	.0	.1	.3	.2	.0	.2	.0		1.3	
	22+	.8	*	.0	.2	.2	.0	.0	.7	.0		2.0	
	TOT %	1.2	.5	.2	.7	.5	.4	.0	.9	.0	.0	4.4	
1<2	0-3	.0	.0	.3	*	.0	.0	.0	.0	.0	.0	.3	
	4-10	.3	.3	.0	.0	.2	.2	.0	.4	.0		1.3	
	11-21	1.1	1.0	.2	.2	.0	*	.1	.0	.0		2.8	
	22+	1.8	.1	.0	.2	.0	.0	.0	.2	.0		2.3	
	TOT %	3.2	1.5	.5	.5	.2	.2	.1	.6	.0	.0	6.7	
2<5	0-3	.2	.0	.0	.0	.2	.0	.0	.0	.0	.5	.8	
	4-10	.4	.4	.3	.0	.0	.0	.2	.4	.0		1.6	
	11-21	1.2	.7	.5	.2	.2	.2	.0	.4	.0		3.3	
	22+	1.4	.3	.2	.2	.3	.2	.0	.2	.0		2.8	
	TOT %	3.2	1.4	1.0	.4	.6	.4	.2	.9	.0	.5	8.5	
5<10	0-3	.2	.3	.5	.1	.8	.5	.1	.2	.0	.2	2.8	
	4-10	1.6	.8	1.5	1.0	2.0	1.6	1.4	1.8	.0		11.6	
	11-21	3.0	1.8	1.6	.5	2.1	2.3	1.7	3.4	.0		16.4	
	22+	2.9	.8	.0	.0	1.1	.6	1.5	1.4	.0		8.3	
	TOT %	7.7	3.7	3.5	1.6	5.9	5.1	4.7	6.8	.0	.2	39.1	
10+	0-3	.2	.2	.2	.0	.3	.0	.2	.0	.0	.5	1.5	
	4-10	1.3	.7	.0	.7	1.4	3.0	1.7	.6	.0		9.3	
	11-21	1.1	1.0	.5	.8	3.6	3.6	3.7	2.1	.0		16.4	
	22+	1.4	*	.0	.0	.4	1.3	.9	1.6	.0		5.6	
	TOT %	4.0	2.0	.6	1.5	5.6	7.9	6.5	4.3	.0	.5	32.7	
TOT OBS													611
TOT PCT													22.1 9.7 6.7 5.8 14.4 14.1 11.5 14.2 .0 1.6 100.0

APRIL

PERIOD: (PRIMARY) 1962-1971
(OVER-ALL) 1981-1971AREA 0003 NE NEWFOUNDLAND COAST
49.0N 53.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00003	17.0	4.4	5.9	8.9	9.6	12.8	3.7	.0	1.5	.7	64.4	35.6	135
06009	15.8	1.3	.0	11.8	19.7	15.8	1.3	1.3	5.3	.0	72.4	27.6	76
12015	10.9	3.6	12.4	7.3	21.9	8.0	.7	.0	1.5	1.5	67.9	32.1	137
18021	10.0	2.9	9.3	10.0	11.4	12.9	5.0	.0	2.1	1.4	65.0	35.0	140
TOT	64	16	36	45	74	98	14	1	11	5	326	182	488
PCT	13.1	3.3	7.8	9.2	15.2	11.9	2.9	.2	2.3	1.0	66.8	33.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	11.0	6.1	6.7	9.2	33.1	33.7	103
06009	7.0	3.5	5.8	10.5	30.2	43.0	86
12015	5.9	5.4	6.9	9.4	48.0	24.3	202
18021	10.2	2.3	6.3	5.7	42.0	33.5	176
TOT	34	28	41	33	251	200	627
PCT	8.6	4.5	6.5	8.5	40.0	31.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	17.2	29.9	40.3	26.9	32.8	134
06009	15.8	19.7	32.9	39.5	27.6	76
12015	10.9	29.2	40.1	28.5	31.4	137
18021	10.0	22.9	35.0	30.7	34.3	140
TOT	64	127	183	148	156	487
PCT	13.1	26.1	37.6	30.4	32.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
55/59	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
50/54	.0	.0	.0	.2	.0	.2	.0	.0	3	.7
45/49	.0	.0	.2	.0	2.1	.0	.9	.5	16	3.7
40/44	.0	.5	.5	.2	2.3	.7	1.4	1.2	29	6.8
35/39	.0	.2	.2	.5	1.9	7.5	10.3	13.1	144	33.6
30/34	.0	.0	.0	.9	1.6	6.3	14.5	18.4	179	41.7
25/29	.0	.0	.0	.2	.5	3.5	4.0	2.1	44	10.3
20/24	.0	.0	.0	.2	.0	.7	1.4	.5	12	2.8
TOTAL	0	3	4	12	36	81	140	153	429	100.0
PCT	.0	.7	.9	2.8	8.4	18.9	32.6	35.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
55/59	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
50/54	.0	.0	.0	.1	.4	.1	.2	.0	.0	.0
45/49	.0	.0	.0	.5	.8	.8	.9	.2	.0	.5
40/44	.7	.7	.2	.2	1.7	1.7	1.2	.2	.0	.0
35/39	9.5	3.6	3.5	1.7	4.4	4.8	2.6	2.8	.0	.7
30/34	10.8	5.0	2.0	3.0	5.4	3.8	3.3	8.2	.0	.2
25/29	3.1	1.0	.2	.2	.2	1.0	2.4	2.2	.0	.0
20/24	.8	.1	.0	.2	.6	.3	.3	.1	.0	.2
TOTAL	24.9	10.4	5.9	6.0	13.8	12.6	11.1	13.8	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	52	46	39	33	26	22	22	33.1	173
06009	62	61	44	33	25	20	20	33.5	84
12015	58	54	42	34	25	22	20	33.9	216
18021	62	52	46	35	28	24	22	35.7	179
TOT	62	52	44	34	26	22	20	34.2	652

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.6	5.6	24.6	34.1	34.1	84	126		
06009	.0	.0	.0	20.6	36.5	42.9	88	63		
12015	.0	6.7	10.1	15.1	28.6	39.5	83	119		
18021	.0	7.3	13.8	15.4	32.5	30.9	80	123		
TOT	0	19	36	81	140	155	83	431		

APRIL

PERIOD: (PRIMARY) 1942-1971
(OVER-ALL) 1881-1971

TABLE 17

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 53.3WPCT FRQ OF AIR TEMPERATURE (DEG F) AND % OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	% FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	1.1	.0	3	.0	1.1
11/13	.0	.0	.0	.0	.0	.4	.4	.0	2	.4	.4
9/10	.0	.0	.0	.0	.0	.7	.4	.4	4	.0	1.5
7/8	.0	.0	.0	.0	.0	3.0	1.1	.0	11	.0	4.1
6	.0	.0	.0	2.2	1.5	.0	.0	.0	10	.7	3.0
5	.0	.0	.0	3.7	4.3	.0	.0	.0	19	1.9	5.2
4	.0	.0	.0	6.3	2.8	.0	.0	.0	24	1.9	7.0
3	.0	.0	1.9	10.4	.7	.0	.0	.0	35	2.6	10.4
2	.0	.0	4.8	8.1	1.1	.0	.0	.0	38	.4	13.7
1	.0	.0	6.7	5.6	.0	.0	.0	.0	33	1.5	10.7
0	.0	.0	5.6	5.9	.0	.4	.0	.0	32	1.9	10.0
-1	.0	.7	2.2	1.9	.0	.0	.0	.0	13	1.1	3.7
-2	.0	.7	2.6	.7	.4	.0	.0	.0	12	1.1	3.3
-3	.0	1.5	1.5	.4	.0	.0	.0	.0	9	.4	3.0
-4	.0	1.5	.4	.0	.0	.0	.0	.0	5	.0	1.9
-5	.0	.7	1.1	.7	.0	.0	.0	.0	7	.0	2.6
-6	.7	.4	.0	1.1	.0	.0	.0	.0	6	.0	2.2
-7/-8	.4	.0	.4	.4	.0	.0	.0	.0	3	.3	1.1
-9/-10	.4	.4	.7	.0	.0	.0	.0	.0	4	.0	1.5
TOTAL	4	16	75	34	7	5	1	1	270	13.7	88.3
PCT	1.5	5.9	27.8	47.4	19.6	2.6	1.9	.4	100.0	13.7	88.3

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.9	.0	.0	.0	.0	.9	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	.9	1.1	.0	.0	.0	2.0	.0	.3	1.1	.0	.0	.0	1.4
3-4	.0	1.1	2.3	3.1	.0	.0	6.5	.0	.0	2.3	.0	.0	.0	2.3
5-6	.0	1.1	2.3	.9	2.3	.0	6.5	.0	1.1	.0	.3	.0	.0	1.4
7	.0	.0	1.1	.9	.0	.0	2.0	.0	.3	2.3	.0	.0	.0	2.6
8-9	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	2.0	1.1	.0	3.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	6.8	8.5	3.4	.0	22.7	.0	2.8	5.7	.6	.0	.0	9.1

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	1.1	.9	.0	.0	.0	2.0	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.3	.0	.0	.0	2.6
7	.0	.9	.0	.0	.0	.0	.9	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	2.0	.0	.0	.0	4.0	.0	3.4	.9	2.3	.0	.3	6.8

PERIOD: (OVER-ALL) 1963-1971

APRIL

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 53.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.1	.0	.0	.0	.0		1.1	1.1	1.1	2.3	.0	.0	.0		4.5
1-2	.0	1.1	.0	.0	.0	.0		1.1	.0	1.1	1.1	.0	.0	.0		2.3
3-4	.0	.0	2.0	.9	.0	.0		2.8	.0	.0	4.8	.3	.0	.0		5.1
5-6	.0	.0	3.1	.0	.0	.0		3.1	.0	.0	.3	.0	.0	.0		3.3
7	.0	1.1	.9	.0	.0	.0		2.0	.0	.0	1.1	.0	.0	.0		1.4
8-9	.0	.0	.0	2.0	.0	.0		2.0	.0	.0	.3	.0	.0	.0		1.1
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	1.1	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.3	.0	.9		.9	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	3.4	6.0	2.8	.0	.9		13.1	1.1	2.3	8.6	2.8	.0	.0		15.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	1.1	.0	.0	.0	.0		1.1	.0	2.8	.0	.0	.0	.0		2.8	
1-2	.0	1.1	1.1	.0	.0	.0		2.3	.0	.0	1.1	.0	.0	.0		1.1	
3-4	.0	1.1	2.0	1.1	.0	.0		4.3	.0	.0	1.4	.0	.0	.0		2.8	
5-6	.0	.0	3.1	.0	.0	.0		3.1	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	4.3	.0	.0	.0		4.3	.0	.0	2.3	.3	.0	.0		2.6	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	1.1	.0	.0	.0		1.1	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	1.1	.0	.0	.0		1.1	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.3	.0	.0		.3	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.3	.0	.0		.3	
20-22	.0	.0	.0	1.1	.0	.0		1.1	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	3.4	10.5	2.3	.0	.0		16.2	.0	2.6	7.1	2.3	.0	.0		11.9	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.2	7.9	3.4	.0	.0	.0	13.5	
1-2	.0	5.6	5.6	.0	.0	.0	11.2	
3-4	.0	3.4	15.7	6.7	.0	.0	25.8	
5-6	.0	4.5	9.0	1.1	2.2	.0	16.9	
7	.0	2.2	12.4	2.2	.0	.0	16.9	
8-9	.0	.0	1.1	4.5	.0	.0	5.6	
10-11	.0	.0	.0	2.2	.0	.0	2.2	
12	.0	.0	1.1	.0	.0	.0	1.1	
13-16	.0	.0	.0	2.2	1.1	.0	3.4	
17-19	.0	.0	.0	1.1	.0	1.1	2.2	
20-22	.0	.0	.0	1.1	.0	.0	1.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.2	23.6	48.3	21.3	3.4	1.1	100.0	89

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-96	87+	TOTAL	MEAN HGT
<6	1.7	5.1	10.2	6.2	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	4
6-7	.0	.6	3.4	9.0	6.2	2.3	1.1	3.4	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	7
8-9	.0	1.1	2.8	4.0	2.8	2.3	1.1	1.7	2.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	8
10-11	.0	.0	.0	.0	3.4	2.8	1.7	.6	1.7	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	20	10
12-13	.0	.0	.6	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	11
>13	.0	.0	.0	.0	.0	1.1	.0	.0	1.7	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	6	14
INDET	.6	.6	3.4	.6	.0	.6	1.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
TOTAL	4	13	36	35	30	16	11	10	18	2	1	1	0	0	0	0	0	0	0	177	7
PCT	2.3	7.3	20.3	19.8	16.9	9.0	6.2	5.6	10.2	1.1	.6	.6	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1878-1971

MAY

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	5.6	.9	5.2	.0	5.9	.0	.0	16.4	.9	.0	28.6	.0	.0	.0	54.1
NE	2.8	.0	1.4	.0	5.6	.0	.0	9.8	2.8	.0	34.3	2.8	.0	.0	50.3
E	10.2	.0	.0	1.8	2.7	.0	.0	14.6	.0	.0	24.3	1.3	.0	.0	59.7
SE	12.9	.0	4.0	.0	8.0	.0	.0	25.0	1.8	.0	40.2	2.2	1.8	.0	29.0
S	12.7	.0	4.8	.0	1.0	.0	.0	16.5	.0	.0	18.2	.0	2.0	.0	63.3
SW	7.3	.0	.0	.0	3.2	.0	.0	10.1	2.5	.0	10.1	.0	.0	.0	77.2
W	3.2	1.8	1.4	.0	6.3	.0	1.8	13.1	1.4	.0	9.0	.0	.0	.0	76.5
NW	2.6	1.3	.3	.0	8.9	.0	.0	9.5	1.6	.0	21.1	.0	.0	.0	67.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27.3	.0	.0	.0	72.7
TOT PCT	7.3	.5	2.4	.2	4.9	.0	.2	14.3	1.2	.0	22.4	.5	.5	.0	61.0
TOT OBS:	575														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	7.5	.7	2.1	.0	5.5	.0	.0	15.1	.0	.0	21.2	1.4	1.4	.0	61.0
0600	6.9	1.0	3.0	.0	2.0	.0	.0	9.9	2.0	.0	17.8	.0	.0	.0	70.3
1200	5.9	.6	3.0	.0	8.3	.0	.6	17.8	1.2	.0	24.9	.6	.6	.0	55.0
1800	8.0	.0	1.7	.6	2.3	.0	.0	11.5	1.7	.0	26.4	.0	.0	.0	60.3
TOT PCT TOT OBS:	7.1	.5	2.4	.2	4.7	.0	.2	13.9	1.2	.0	23.2	.5	.5	.0	60.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	5.0	7.5	3.6	1.1	.0		17.7	16.2	21.3	11.1	17.9	11.3	15.3	18.6	19.2	16.5	
NE	.5	2.6	2.5	.1	.0	.0		5.8	10.3	7.2	9.7	5.1	.0	3.0	5.5	5.4	11.2	
E	.4	4.1	3.8	.6	.2	.0		9.2	12.0	8.3	8.3	4.5	3.8	10.5	12.7	11.8	8.0	
SE	1.0	5.5	3.0	1.3	.0	.0		10.9	10.6	12.6	9.7	6.5	13.8	10.9	13.2	8.2	18.6	
S	1.1	5.6	8.9	1.4	.5	.2		17.7	13.8	16.5	30.6	23.2	20.0	12.5	14.5	19.0	13.3	
SW	.6	4.1	7.8	1.9	.5	.0		14.9	14.7	13.6	9.7	15.2	28.8	14.1	15.9	15.9	13.8	
W	.6	2.4	5.3	1.1	.0	.0		9.4	13.5	9.0	11.1	12.8	13.8	16.1	8.6	5.2	6.4	
NW	.2	4.9	4.6	3.1	.0	.0		12.8	14.9	13.0	6.9	12.5	8.8	15.1	10.9	13.8	12.2	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8							1.8	.0	2.5	2.8	2.4	.0	2.4	.0	1.5	.0	
TOT OBS	42	213	270	81	14	1	621		13.5	121	36	84	20	124	53	134	47	
TOT PCT	6.8	34.3	43.5	13.0	2.3	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	2.1	8.1	5.8	1.7	.0			17.7	16.2	18.9	16.6	16.3	18.5
NE	1.4	3.8	.4	.1	.0			5.8	10.3	7.8	4.1	3.8	6.9
E	1.7	5.6	1.7	.3	.0			9.2	12.0	8.3	4.3	11.2	10.8
SE	3.5	5.6	1.6	.2	.0			10.9	10.6	11.9	7.9	11.6	10.9
S	3.7	7.9	4.9	1.0	.2			17.7	13.8	19.7	22.6	13.1	17.5
SW	2.5	7.4	4.0	.6	.3			14.9	14.7	12.7	17.8	14.7	15.3
W	1.4	6.0	1.4	.5	.0			9.4	13.5	6.4	13.0	13.8	5.5
NW	2.4	5.3	4.0	1.1	.0			12.8	14.9	11.6	11.8	13.8	13.4
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	2.5	1.9	1.7	1.1
TOT OBS	127	308	148	35	3	621		13.5		157	104	179	181
TOT PCT	20.5	49.6	23.8	5.6	.5			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1878-1971

MAY

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.5	6.4	38.9	35.0	14.6	1.9	.8	13.0	100.0	157
06009	1.9	3.8	35.6	41.3	13.5	3.8	.0	14.5	100.0	104
12015	1.7	5.6	35.8	44.1	11.2	1.7	.0	13.0	100.0	179
18021	1.1	3.9	28.2	51.4	13.3	2.2	.0	14.0	100.0	181
TOT	11	31	213	270	81	14	1	13.5		621
PCT	1.8	5.0	34.3	43.5	13.0	2.3	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSO	TOTAL OBS	MEAN CLOUD COVER
N	1.9	.6	1.7	14.7		6.9
NE	1.0	.0	1.1	5.0		6.6
E	1.4	.2	1.3	6.1		6.6
SE	.3	.3	.2	6.9		7.5
S	3.0	2.1	3.4	9.3		6.0
SW	3.3	1.8	3.4	5.1		5.3
W	3.0	.9	1.7	3.7		5.0
NW	2.7	1.6	1.9	8.2		5.9
VAR	.0	.0	.0	.0		.0
CALM	.4	.2	.6	.9		5.6
TOT OBS	78	36	71	277	462	6.2
TOT PCT	16.9	7.8	15.4	60.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	3.1	2.7	2.3	1.7	2.1	3.5	.4	.0	.2	.0	3.0	
NE	1.1	.9	.3	.2	.9	.5	.9	.2	.0	.0	1.9	
E	1.3	.0	.0	.8	2.0	.7	.4	.4	.4	.0	3.0	
SE	1.8	.0	.9	.8	1.3	.3	.4	.6	.1	.2	1.4	
S	1.8	.0	.4	.2	3.4	1.9	.7	.3	.2	1.3	7.5	
SW	.4	.1	.0	.4	1.6	1.6	.6	1.1	1.1	.2	6.5	
W	.5	.2	.0	.4	1.0	1.6	.6	.0	.0	.2	4.8	
NW	2.5	.7	.4	1.3	1.7	2.3	.5	.0	.3	.2	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.2	.6	.2	.0	.0	.0	.0	.9	
TOT OBS	59	21	20	28	67	39	21	12	10	10	155	462
TOT PCT	12.8	4.5	4.3	6.1	14.5	12.8	4.5	2.6	2.2	2.2	33.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.7	4.0	4.2	4.2	4.2	4.2	4.2	4.2
= OR >5000	3.4	5.9	6.6	6.6	6.6	6.8	6.8	6.8
= OR >3500	4.7	10.1	10.8	10.8	10.8	11.0	11.2	11.2
= OR >2000	10.6	21.1	23.7	23.7	23.7	23.9	24.1	24.1
= OR >1000	15.2	31.5	36.8	38.1	38.3	38.5	38.7	38.7
= OR >600	15.6	34.7	41.4	43.3	44.0	44.2	44.6	44.6
= OR >300	15.9	37.6	45.2	47.4	48.0	48.4	48.8	48.8
= OR >150	15.9	38.1	47.1	50.1	51.2	52.9	53.3	53.3
= OR > 0	15.9	38.1	47.6	50.7	53.7	58.1	65.3	66.6
TOTAL	75	180	225	240	254	275	309	315

TOTAL NUMBER OF OBS: 473

PCT FREQ NH <5/8: 33.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSO	TOTAL OBS
13.2	6.3	5.9	5.2	2.5	2.5	5.9	6.5	40.0	12.1	478

PERIOD: (PRIMARY) 1951-1971
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MAY

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49.0N 52.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.5	.0	.3	.6	.3	.3	.0	.2	.0	.0	2.3	
	NO PCP	2.1	1.5	1.5	3.0	2.2	1.0	.4	1.6	.0	.2	13.4	
	TOT %	2.6	1.5	1.9	3.5	2.5	1.3	.4	1.7	.0	.2	15.7	
1/2<1	PCP	.3	.0	.1	.4	.0	.2	.2	*	.0	.0	1.2	
	NO PCP	1.3	.2	.0	.0	.0	.1	.1	.6	.0	.0	2.3	
	TOT %	1.6	.2	.1	.4	.0	.3	.3	.7	.0	.0	3.5	
1<2	PCP	.8	.1	.5	.0	.2	*	.1	.3	.0	.0	2.1	
	NO PCP	.5	.0	.3	.2	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	1.3	.1	.8	.2	.2	*	.1	.3	.0	.0	3.1	
2<5	PCP	1.0	.2	.2	.7	1.3	.6	.3	.6	.0	.0	4.9	
	NO PCP	1.4	.1	.6	.7	1.6	1.0	.3	.5	.0	.2	6.3	
	TOT %	2.3	.3	.7	1.3	3.0	1.6	.7	1.1	.0	.2	11.1	
5<10	PCP	.7	.3	.3	.7	.5	.0	.5	*	.0	.0	2.8	
	NO PCP	6.2	2.1	4.5	2.3	4.7	3.8	2.1	3.7	.0	.9	30.3	
	TOT %	6.5	2.4	4.8	3.0	5.3	3.8	2.6	3.7	.0	.9	33.0	
10+	PCP	.7	.0	.0	.0	.5	.2	.1	*	.0	.0	1.0	
	NO PCP	4.0	1.8	1.5	1.2	5.8	6.5	5.4	5.7	.0	.7	32.5	
	TOT %	4.7	1.8	1.5	1.2	6.3	6.7	5.5	5.7	.0	.7	33.6	
TOT OBS													
TOT PCT		18.6	8.2	9.8	9.7	17.2	13.7	9.6	13.2	.0	1.9	100.0	575

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.5	
	4-10	1.6	.7	.7	2.8	.6	.6	.1	.8	.0		8.0	
	11-21	.8	.8	.9	.8	1.7	.6	.1	.7	.0		6.5	
	22+	.2	.0	.2	.0	.1	.1	.0	.2	.0		.7	
	TOT %	2.5	1.4	1.8	3.8	2.5	1.3	.4	1.7	.0	.2	15.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.5	.0	.1	.1	.0	.1	.1	.2	.0		1.0	
	11-21	.8	.2	.0	.0	.0	.3	.2	.3	.0		1.7	
	22+	.3	.0	.0	.3	.0	.0	.0	.2	.0		.8	
	TOT %	1.6	.2	.1	.4	.0	.4	.3	.6	.0	.0	3.6	
1<2	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.2	.0	.2	.0	.0	.0	.0	.0	.0		.3	
	11-21	.6	.1	.3	.2	.2	*	.1	.0	.0		1.5	
	22+	.3	.0	.3	*	.0	.0	.3	.0	.0		1.0	
	TOT %	1.3	.1	.8	.2	.2	*	.1	.3	.0	.0	3.1	
2<5	0-3	.0	.0	.0	*	.3	.0	.0	.0	.0	.2	.5	
	4-10	.1	*	.3	.4	.6	.0	.2	.5	.0		2.2	
	11-21	.9	.2	.3	.3	1.8	1.2	.5	.3	.0		5.4	
	22+	1.2	.0	.2	.5	.2	.3	.0	.3	.0		2.7	
	TOT %	2.3	.3	.7	1.3	2.9	1.5	.6	1.1	.0	.2	10.9	
5<10	0-3	.0	.2	.1	.2	.0	.0	.3	*	.0	.8	1.7	
	4-10	1.7	1.3	2.5	1.6	2.0	1.2	.7	1.2	.0		12.2	
	11-21	3.1	.9	1.9	.8	2.4	2.0	1.2	2.0	.0		14.1	
	22+	1.6	.0	.2	.4	.8	.5	.3	.4	.0		4.2	
	TOT %	6.4	2.4	4.7	3.0	5.1	3.7	2.5	3.6	.0	.8	32.3	
10+	0-3	.3	.4	.3	.2	.5	.2	.2	.0	.0	.7	2.7	
	4-10	1.1	.7	.6	.3	2.2	2.0	1.4	2.2	.0		10.5	
	11-21	1.7	.6	.6	.6	3.1	3.8	3.3	1.5	.0		15.1	
	22+	1.0	.1	.0	.1	.9	1.6	.8	1.9	.0		6.3	
	TOT %	4.1	1.7	1.5	1.1	6.7	7.5	5.6	5.6	.0	.7	34.6	
TOT OBS													
TOT PCT		18.1	6.1	9.6	9.8	17.4	14.5	9.6	13.0	.0	1.9	100.0	589

PERIOD: (PRIMARY) 1951-1971
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MAY

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <3/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	12.9	4.8	4.0	2.4	12.9	13.7	7.3	4.0	.8	2.4	65.3	34.7	124
06009	15.3	1.2	2.4	7.1	21.2	8.2	3.5	2.4	.0	4.7	65.9	34.1	85
12015	13.5	7.1	6.3	7.9	14.3	12.7	3.2	3.2	3.2	.0	71.4	28.6	126
18021	12.3	3.6	3.6	6.5	12.3	15.2	3.6	.7	3.6	2.7	63.8	36.2	138
TOT	63	21	20	28	69	61	21	12	10	10	315	158	473
PCT	13.3	4.4	4.2	5.9	14.6	12.9	4.4	2.5	2.1	2.1	66.6	33.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	18.1	3.4	1.9	9.4	36.2	31.5	149
06009	11.4	2.9	1.9	11.4	32.4	40.0	105
12015	16.8	4.6	4.0	11.0	31.2	32.4	173
18021	16.4	2.8	4.0	11.9	28.2	36.7	177
TOT	97	21	18	66	192	210	604
PCT	16.1	3.5	3.0	10.9	31.8	34.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL
(GMT)	<50YD	<1	<5	AND5+		OBS
00003	12.9	23.4	33.1	33.9	33.1	124
06009	15.3	18.8	34.1	32.9	32.9	85
12015	13.5	29.4	41.3	31.0	27.8	126
18021	12.3	22.5	37.0	29.0	34.1	138
TOT	63	113	173	149	191	473
PCT	13.3	23.9	36.6	31.5	31.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUM DITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
60/64	.0	.0	.0	.2	.2	.0	.0	.0	2	.5
55/59	.0	.2	.5	.0	.2	.0	.5	.2	7	1.7
50/54	.0	.0	.0	1.0	.2	.5	1.0	.5	13	3.2
45/49	.0	.0	.2	2.0	1.0	1.2	2.0	.2	27	6.7
40/44	.0	.0	.0	.2	1.0	5.7	5.7	6.9	79	19.6
35/39	.0	.0	.0	1.0	2.5	5.7	13.4	22.3	181	44.8
30/34	.0	.0	.0	.0	.5	3.2	6.2	10.9	84	20.8
25/29	.0	.0	.0	.0	.0	.5	.7	1.5	11	2.7
TOTAL	0	1	3	18	23	68	119	172	404	100.0
PCT	.0	.2	.7	4.5	5.7	16.8	29.5	42.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0
55/59	.0	.0	.6	.2	.4	.2	.2	.0	.0	.0
50/54	.5	.5	.0	.2	.8	.6	.2	.5	.0	.0
45/49	.7	.1	.5	.2	1.7	1.5	1.2	.7	.0	.0
40/44	2.4	1.1	1.4	1.7	5.9	3.1	2.0	2.0	.0	.0
35/39	8.2	2.8	4.5	4.3	5.7	6.7	5.3	6.1	.0	1.2
30/34	4.4	1.9	2.4	1.7	2.4	2.3	.9	4.8	.0	.0
25/29	1.0	.3	.2	.0	.0	.0	.2	.4	.0	.5
TOTAL	17.1	6.7	9.5	8.4	17.0	14.7	10.3	14.5	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	64	54	46	36	31	28	27	36.9	156
06009	63	58	45	36	29	25	25	36.7	108
12015	64	53	47	37	32	27	25	37.9	180
18021	58	56	50	38	32	30	30	39.5	179
TOT	64	56	48	37	31	28	25	37.9	623

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	1.0	8.7	10.7	32.0	47.6	87	103
06009	.0	.0	4.1	17.6	25.7	52.7	88	74
12015	.0	6.8	5.9	16.9	26.3	44.1	85	118
18021	.0	10.9	3.4	21.8	33.6	30.3	81	119
TOT	0	22	23	70	123	176	85	414

MAY

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TABLE 17

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.8WPCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	23 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	N FOG	W FOG
17/19	.0	.0	.0	.0	.0	.2	.0	.2	.4	.2	5	.0	1.1
14/16	.0	.0	.0	.0	.0	.0	.7	.7	.2	.0	7	.4	1.1
11/13	.0	.0	.0	.0	.2	1.1	.4	.2	.0	.0	9	.0	2.0
9/10	.0	.0	.0	.2	2.0	1.5	.4	.4	.0	.0	21	.9	3.7
7/8	.0	.0	.4	2.0	3.5	.7	.0	.0	.0	.0	30	.9	5.7
6	.0	.0	.4	1.5	2.0	.2	.7	.2	.0	.0	23	1.1	3.9
5	.0	.0	1.5	3.7	2.2	.7	.4	.0	.0	.0	39	.7	7.9
4	.0	.0	2.0	5.3	.9	.9	.0	.0	.0	.0	41	2.8	6.1
3	.7	.0	5.0	5.3	1.5	.2	.0	.0	.0	.0	55	4.4	7.7
2	.0	.2	7.9	4.4	1.1	.0	.0	.0	.0	.0	62	3.3	10.3
1	.0	1.5	5.7	3.9	.9	.0	.0	.0	.0	.0	55	3.1	9.0
0	.0	1.3	4.8	1.8	.7	.0	.0	.0	.0	.0	39	2.0	6.6
-1	.7	.7	3.5	1.1	.9	.0	.0	.0	.0	.0	29	2.4	3.9
-2	.2	.0	1.3	.7	.4	.0	.0	.0	.0	.0	12	.7	2.0
-3	.7	.4	1.3	.2	.0	.0	.0	.0	.0	.0	10	.4	1.8
-4	.2	.4	.0	.0	.2	.0	.0	.0	.0	.0	4	.2	.7
-5	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	3	.4	.2
-6	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	3	.2	.4
-7/-8	.7	.0	.4	.2	.0	.0	.0	.0	.0	.0	4	.2	.9
-11/-13	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	5	.2	.9
-14/-16	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	8		163		75		12		3		457	111	346
PCT	1.8	23	35.7	30.4	16.4	5.5	2.6	1.8	.7	.2	100.0	24.3	75.7

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.5	.0	.0	.0	1.5	.5	.1	.1	.0	.0	.0	.8
1-2	.0	3.2	1.9	.0	.0	.0	5.1	.0	1.7	.3	.0	.0	.0	2.0
3-4	.0	.5	2.0	2.1	.0	.0	4.7	.0	.0	3.9	.0	.0	.0	3.9
5-6	.0	.5	.0	1.6	.9	.0	3.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	2.3	1.5	.5	.0	4.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.2	8.2	5.7	2.0	.0	21.1	.5	1.9	4.4	.0	.0	.0	6.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	.4	.0	.0	.0	1.9	.1	4.1	.0	.0	.0	.0	4.3
1-2	.0	.9	.5	.0	.0	.0	1.5	.0	1.1	1.3	.0	.0	.0	2.4
3-4	.0	.8	2.3	.0	.0	.0	3.1	.0	.8	.5	.0	.0	.0	1.3
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	1.1	.0	.0	1.1
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.7	4.7	1.1	.5	.0	9.5	.1	6.0	2.8	1.1	.0	.0	10.0

PERIOD: (OVER-ALL) 1963-1971

MAY

TABLE 18 (CONT)

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.8W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S								SW								TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.9	1.7	.0	.0	.0	.0	2.7		.5	2.3	.7	.0	.0	.0	3.5		98.4
1-2	.0	1.1	1.9	.0	.0	.0	2.9		.0	.5	1.3	.0	.0	.0	1.9		
3-4	.0	1.1	3.1	.0	.0	.0	4.1		.0	.0	1.6	1.1	.0	.0	2.7		
5-6	.0	.0	1.9	.0	.0	.0	1.9		.0	.5	2.7	.5	.0	.0	3.7		
7	.0	.0	2.0	.0	.0	.0	2.0		.0	.0	1.7	.5	.0	.0	2.3		
8-9	.0	.0	.0	.5	.0	.0	.5		.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.9	3.9	8.8	.5	.0	.0	14.2		.5	3.3	8.0	2.1	.0	.0	14.0		

HGT	W								NW								TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.4	.0	.0	.0	.4		.0	3.2	.0	.0	.0	.0	3.2		98.4
1-2	.0	1.3	1.7	.0	.0	.0	3.1		.0	1.9	.1	.0	.0	.0	2.0		
3-4	.0	.0	.4	.0	.0	.0	.4		.0	.0	2.3	1.6	.0	.0	3.9		
5-6	.0	.0	1.1	.0	.0	.0	1.1		.0	.0	.0	2.7	.1	.0	2.8		
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.5	2.1	.0	.0	2.7		
8-9	.0	.0	.5	.0	.0	.0	.5		.0	.0	.4	1.2	.0	.0	1.6		
10-11	.0	.0	.0	.5	.0	.0	.5		.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.5	.0	.0	.0	.5		
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	1.3	4.1	.5	.0	.0	6.0		.0	3.1	3.9	7.6	.1	.0	16.7		

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.3	13.4	2.1	.0	.0	.0	19.8	107
1-2	.0	11.8	9.1	.0	.0	.0	20.9	
3-4	.0	3.2	16.0	4.8	.0	.0	24.1	
5-6	.0	1.1	8.0	4.8	1.1	.0	15.0	
7	.0	.0	5.9	4.3	.0	.0	10.2	
8-9	.0	.0	3.2	9.7	.5	.0	7.5	
10-11	.0	.0	.0	1.1	.5	.0	1.6	
12	.0	.0	.5	.0	.0	.0	.5	
13-16	.0	.0	.0	.0	.5	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.3	29.4	44.9	18.7	2.7	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	5.0	12.4	7.0	4.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	4
6-7	.0	1.0	9.7	6.4	5.4	3.7	1.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	5
8-9	.0	.0	.7	4.0	5.4	1.0	2.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	7
10-11	.0	.7	.0	.3	4.0	1.3	1.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	8
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	2.0	3.3	3.7	3.3	2.7	1.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	4
TOTAL	13	30	79	63	64	28	13	6	3	0	0	0	0	0	0	0	0	0	0	299	5
PCT	4.3	10.0	26.4	21.1	21.4	9.4	4.3	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1869-1971

JUNE

AREA 0003 NE NEWFOUNDLAND COAST
48.8N 52.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	HAIR	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.8	1.0	3.6	.0	.0	.0	.0	7.4	1.3	.0	39.4	1.0	.0	.0	50.9
NE	16.3	.0	3.9	.0	.0	.0	.0	20.2	.0	.0	47.3	.0	.0	.0	32.6
E	15.9	.0	6.1	.0	.0	.0	.0	22.0	.0	.0	34.8	3.0	3.0	.0	37.1
SE	15.4	1.4	5.7	.0	.0	.0	.0	22.5	.0	.0	23.2	1.4	5.7	.0	47.1
S	4.4	.0	1.5	.0	.0	.0	.0	5.9	1.2	.0	32.0	1.2	1.7	.0	58.0
SW	4.1	.4	2.2	.0	.0	.0	.0	6.6	.7	.0	20.4	.7	5.3	.0	66.1
W	1.8	.9	2.7	.0	.0	.0	.0	5.4	.0	.0	27.2	.0	1.8	.0	65.6
NW	2.4	.0	2.4	.0	.0	.0	.0	4.8	1.9	.0	27.2	1.1	.0	.0	65.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	5.3	.0	.0	.0	.0	.0	5.3	.0	.0	15.8	.0	.0	.0	78.9
TOT PCT	5.7	.6	2.8	.0	.0	.0	.0	9.1	.9	.0	29.3	1.0	2.3	.0	57.5
TOT OBS:	703														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	HAIR	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.3	1.0	2.9	.0	.0	.0	.0	7.1	1.4	.0	28.6	1.4	1.4	.0	60.0
06009	5.4	1.4	3.4	.0	.0	.0	.0	10.1	1.4	.0	29.1	.0	2.0	.0	57.4
12015	6.0	.5	1.4	.0	.0	.0	.0	7.9	.0	.0	33.5	.5	2.8	.0	55.3
18021	8.0	1.1	3.4	.0	.0	.0	.0	12.6	.6	.0	23.6	1.7	2.3	.0	59.2
TOT PCT	5.6	.9	2.7	.0	.0	.0	.0	9.2	.8	.0	28.9	.9	2.1	.0	58.0
TOT OBS:	747														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	5.1	7.0	.7	.1	.0		13.6	12.7		17.2	6.5	11.1	22.0	16.5	8.2	9.8	15.4
NE	.2	1.9	2.1	.4	.0	.0		4.5	11.8		6.5	2.4	2.8	2.0	3.9	2.4	5.7	6.3
E	.5	2.0	2.2	.3	.1	.0		5.1	11.7		4.5	1.2	6.5	4.0	3.9	3.8	7.1	7.8
SE	.5	4.0	3.9	1.4	.0	.0		9.7	13.1		16.4	6.0	7.3	2.0	7.9	7.7	9.9	4.7
S	.9	6.5	11.7	3.8	.1	.0		22.9	14.4		22.5	30.4	22.6	20.0	17.0	27.4	26.4	27.3
SW	.7	5.6	10.7	2.8	.1	.0		19.9	14.3		17.4	33.3	21.2	16.0	17.3	23.6	19.3	24.2
W	.3	3.0	4.1	.5	.0	.0		7.9	12.6		6.8	14.9	7.3	10.0	12.0	5.3	5.5	.0
NW	.3	3.7	6.0	2.6	.4	.0		13.0	16.1		7.1	3.0	15.7	16.0	15.5	21.6	14.9	10.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0		1.7	2.4	5.6	8.0	6.1	.0	1.4	3.1
TOT OBS	56	241	361	94	6	0	758		13.4		177	42	124	25	165	52	141	32
TOT PCT	7.4	31.8	47.6	12.4	.8	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	06	12	18	21
N	2.2	8.0	3.1	.3	.0		13.6	12.7		15.2	12.9	14.5	10.8	
NE	.8	2.7	.6	.3	.0		4.5	11.8		5.7	2.7	3.6	5.8	
E	1.6	2.3	1.0	.1	.0		5.1	11.7		3.9	6.0	3.9	7.2	
SE	1.8	5.0	2.7	.1	.0		9.7	13.1		14.4	6.4	7.8	9.0	
S	2.3	12.2	7.8	.6	.0		22.9	14.4		24.0	22.1	19.5	26.6	
SW	2.6	9.8	7.0	.5	.0		19.9	14.3		20.4	20.3	18.8	20.2	
W	1.7	3.9	2.3	.0	.0		7.9	12.6		8.3	7.7	10.4	4.5	
NW	1.6	5.8	4.1	1.3	.1		13.0	16.1		6.3	15.8	16.9	14.2	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	3.4						3.4	.0		1.8	6.0	4.6	1.7	
TOT OBS	137	379	217	24	1	758		13.4		219	149	217	173	
TOT PCT	18.1	50.0	28.6	3.2	.1		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1869-1971

JUNE

AREA 0003 NE NEWFOUNDLAND COAST
48.8N 52.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.8	3.7	31.5	30.7	11.9	.5	.0	13.4	100.0	219
06009	6.0	2.7	26.8	46.3	16.8	1.3	.0	14.2	100.0	149
12015	4.6	5.1	34.6	43.8	11.1	.9	.0	12.8	100.0	217
18021	1.7	4.0	32.9	49.7	11.0	.6	.0	13.3	100.0	173
TOT	26	30	241	361	94	6	0	13.4		758
PCT	3.4	4.0	31.8	47.6	12.4	.8	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	1.9	1.0	1.3	7.8		6.3
NE	.3	.1	.3	3.7		7.3
E	.7	.3	.5	3.7		6.5
SE	.7	1.3	1.6	7.6		6.8
S	4.2	2.0	4.3	12.4		6.0
SW	6.2	1.9	3.5	8.1		5.0
W	1.3	1.1	1.6	4.2		5.9
NW	2.5	.3	3.1	7.2		6.7
VAR	.0	.0	.0	.0		.0
CALM	.9	.0	1.0	1.4		5.5
TOT OBS	107	46	98	321	572	6.0
TOT PCT	18.7	8.0	17.1	56.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	3.7	.2	.4	.3	1.2	1.2	1.5	.2	.0	.1	3.1	
NE	1.4	.0	.4	.3	.7	.3	.0	.2	.0	.0	.9	
E	1.7	.0	.4	.5	.7	.4	.0	.0	.0	.2	1.3	
SE	2.8	.2	.1	1.3	1.3	.5	.7	.2	.6	.4	2.9	
S	5.6	.0	.3	1.4	1.7	1.6	.3	.3	1.0	1.3	9.3	
SW	2.3	.0	.6	1.5	1.7	1.3	.6	.3	.6	.1	10.7	
W	1.5	.2	.1	.6	1.2	.4	.4	.3	.2	.0	3.3	
NW	2.7	.3	1.0	1.2	1.7	1.7	.3	.0	.3	.0	3.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.0	.7	.2	.0	.2	.3	.3	.0	1.0	
TOT OBS	128	5	19	46	59	43	24	10	18	12	208	572
TOT PCT	22.4	.9	3.3	8.0	10.3	7.5	4.2	1.7	3.1	2.1	36.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50VD	= OR >0
= OR >6500	4.5	5.3	5.5	5.6	5.6	5.6	5.6	5.6
= OR >5000	5.8	7.0	7.1	7.3	7.3	7.3	7.3	7.3
= OR >3500	7.3	10.4	11.1	11.3	11.3	11.3	11.3	11.3
= OR >2000	10.8	17.3	18.4	18.7	18.9	19.2	19.2	19.2
= OR >1000	15.4	26.0	28.6	29.1	29.5	29.8	29.8	29.8
= OR >600	17.1	30.8	35.3	36.3	37.3	37.6	37.6	37.6
= OR >300	17.2	32.8	37.6	39.1	40.6	40.9	40.9	40.9
= OR >150	17.5	33.1	37.9	39.9	41.6	41.9	41.9	41.9
= OR >0	17.5	34.4	40.4	44.9	49.3	54.5	60.9	63.4
TOTAL	106	208	244	271	298	329	368	383

TOTAL NUMBER OF OBS: 604

PCT FREQ NH <5/8: 36.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
14.2	7.6	6.3	4.8	2.9	3.9	6.6	7.4	26.0	20.2	619

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1869-1971

JUNE

AREA 0003 NE NEWFOUNDLAND COAST
48.8N 52.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.1	.0	.1	.4	.1	.0	.*	.0	.0	.9	
	NO PCP	3.4	1.4	.5	.7	4.6	2.6	1.4	1.5	.0	.3	16.3	
	TOT %	3.6	1.4	.5	.8	4.9	2.6	1.4	1.5	.0	.3	17.1	
1/2<1	PCP	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.4	
	NO PCP	.7	.2	.6	.5	1.2	.9	.1	.7	.0	.0	5.0	
	TOT %	.8	.2	.6	.7	1.2	.9	.1	.9	.0	.0	5.4	
1<2	PCP	.1	.1	.6	.4	.1	.0	.0	.2	.0	.0	1.6	
	NO PCP	.8	.0	.1	.4	.5	.0	.1	.5	.0	.1	2.6	
	TOT %	.9	.1	.8	.7	.6	.0	.1	.7	.0	.1	4.1	
2<5	PCP	.1	.3	.0	.5	.1	.1	.0	.1	.0	.0	1.3	
	NO PCP	.5	.2	.5	1.2	1.0	1.1	.5	.4	.0	.0	5.6	
	TOT %	.6	.5	.5	1.7	1.1	1.3	.5	.5	.0	.0	6.8	
5<10	PCP	.4	.4	.4	.9	.8	.4	.0	.0	.0	.0	3.6	
	NO PCP	3.6	.9	.9	2.1	6.6	5.1	2.4	4.0	.0	.6	26.2	
	TOT %	4.0	1.3	1.3	3.0	7.4	5.5	2.4	4.0	.0	.6	29.8	
10+	PCP	.1	.0	.0	.3	.0	.3	.4	.1	.0	.1	1.4	
	NO PCP	3.9	1.0	1.0	2.7	8.3	8.2	3.0	5.5	.0	1.6	35.2	
	TOT %	4.0	1.0	1.0	3.0	8.3	8.5	3.5	5.6	.0	1.7	36.7	
TOT OBS													
TOT PCT													
		13.9	4.6	4.7	10.0	23.6	19.7	8.0	13.3	.0	2.7	100.0	701

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.3	.2	.1	.0	.3	1.0	
	4-10	1.7	.5	.4	.7	1.3	.8	.9	.8	.0	.0	7.1	
	11-21	1.9	.8	.4	.3	2.5	1.3	.2	.5	.0	.0	7.9	
	22+	.0	.0	.0	.2	.9	.3	.0	.1	.0	.0	1.5	
	TOT %	3.6	1.4	.8	1.2	4.7	2.7	1.3	1.6	.0	.3	17.5	
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.0	.1	.3	.2	.4	.1	.3	.0	.0	1.5	
	11-21	.5	.2	.3	.4	.8	.3	.0	.3	.0	.0	2.7	
	22+	.1	.0	.0	.0	.2	.2	.0	.3	.0	.0	.6	
	TOT %	.8	.2	.5	.7	1.2	.9	.1	.9	.0	.0	3.2	
1<2	0-3	.1	.0	.0	.0	.0	.0	.0	.*	.0	.1	.3	
	4-10	.3	.0	.0	.3	.2	.0	.0	.0	.0	.0	.8	
	11-21	.5	.0	.6	.4	.3	.1	.1	.7	.0	.0	2.7	
	22+	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.9	.1	.8	.7	.6	.1	.1	.7	.0	.1	4.1	
2<5	0-3	.0	.0	.0	.*	.1	.0	.0	.0	.0	.0	.1	
	4-10	.3	.2	.3	.5	.0	.3	.4	.2	.0	.0	2.2	
	11-21	.2	.2	.2	.7	.8	.8	.1	.2	.0	.0	3.2	
	22+	.0	.1	.0	.4	.2	.2	.0	.1	.0	.0	1.1	
	TOT %	.6	.5	.5	1.6	1.1	1.2	.5	.5	.0	.0	6.6	
5<10	0-3	.1	.0	.0	.3	.3	.2	.1	.1	.0	.8	1.9	
	4-10	1.3	.4	.8	1.0	2.7	1.9	.4	1.2	.0	.0	9.7	
	11-21	1.6	.8	.3	1.0	2.9	2.5	1.5	1.5	.0	.0	12.1	
	22+	.8	.1	.1	.5	1.2	1.1	.3	1.1	.0	.0	5.2	
	TOT %	3.8	1.3	1.2	2.9	7.1	5.7	2.3	3.8	.0	.8	28.9	
10+	0-3	.1	.2	.2	.2	.4	.2	.1	.1	.0	2.1	3.6	
	4-10	1.4	.7	.4	1.3	2.1	2.2	1.3	1.3	.0	.0	10.7	
	11-21	2.5	.2	.4	1.3	4.1	5.1	2.3	3.0	.0	.0	18.9	
	22+	.0	.0	.0	.2	1.5	1.2	.2	1.4	.0	.0	4.5	
	TOT %	4.0	1.1	1.0	3.0	8.2	8.7	3.9	5.8	.0	2.1	37.7	
TOT OBS													
TOT PCT													
		13.7	4.6	4.9	10.1	22.8	19.3	8.2	13.2	.0	3.3	100.0	730

JUNE

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1869-1971AREA 0003 NE NEWFOUNDLAND COAST
48.8N 52.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	21.9	.6	2.2	3.9	7.3	9.6	3.9	3.4	2.8	4.5	60.1	39.9	178
06009	25.0	2.3	4.5	6.1	13.6	7.6	2.3	.0	1.5	.0	62.9	37.1	132
12015	24.0	1.3	3.9	7.1	13.6	6.5	5.2	1.3	5.7	.6	68.8	31.2	194
18021	15.1	.0	2.7	15.1	9.6	7.5	4.8	1.4	6.8	2.1	63.0	37.0	146
TOT	131	6	20	48	66	48	25	10	22	17	388	222	610
PCT	21.5	1.0	3.3	7.9	10.8	7.9	4.1	1.6	3.6	2.0	63.6	36.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	16.5	6.3	1.8	7.1	29.9	38.4	224
06009	17.5	5.8	3.7	8.4	25.3	39.6	194
12015	19.7	6.0	4.0	5.5	27.5	39.3	218
18021	14.0	1.7	5.6	5.1	30.3	43.3	178
TOT	132	39	37	90	220	301	774
PCT	17.1	5.0	4.1	6.5	28.4	38.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	22.3	28.0	35.4	26.3	38.3	175
06009	25.2	32.1	43.5	19.8	36.6	131
12015	23.7	32.9	42.1	29.6	28.3	192
18021	15.1	19.2	37.0	27.4	35.6	146
TOT	130	169	237	157	210	604
PCT	21.5	28.0	39.2	24.0	34.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
65/69	.0	.0	.7	.4	.4	.2	.0	.0	8	1.2
60/64	.0	.0	.4	.8	.0	.6	1.4	.6	19	3.7
55/59	.0	.0	.0	.4	1.0	2.0	1.2	.8	27	5.3
50/54	.0	.0	.0	.4	1.7	2.6	5.3	5.3	75	14.7
45/49	.0	.0	.0	.2	1.8	3.9	8.8	13.2	142	27.9
40/44	.0	.0	.0	.0	.4	2.0	7.3	19.1	148	28.7
35/39	.0	.0	.0	.0	.0	.6	4.9	12.2	90	17.7
30/34	.0	.0	.0	.0	.0	.0	.2	.4	3	.6
TOTAL	0	0	3	11	25	60	148	282	509	100.0
PCT	.0	.0	.6	2.2	4.9	11.8	29.1	51.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
65/69	.0	.0	.2	.0	.0	.6	.1	.0	.0	.2
60/64	.2	.2	.0	.0	1.1	1.9	.3	.0	.0	.0
55/59	.5	.2	.0	1.0	1.3	1.2	.6	.2	.0	.2
50/54	.5	.1	1.2	2.1	4.8	2.8	1.2	.8	.0	1.2
45/49	3.0	1.2	1.0	3.0	8.4	5.6	2.0	2.5	.0	1.2
40/44	3.3	1.0	1.9	3.7	6.8	5.8	1.7	3.9	.0	.8
35/39	3.0	.6	.9	1.7	1.7	2.1	1.2	5.6	.0	.8
30/34	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0
TOTAL	10.7	3.4	5.2	11.6	24.1	20.0	7.4	13.3	.0	4.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	71	67	57	43	37	34	32	44.5	230
06009	70	61	55	41	36	34	32	43.1	156
12015	67	63	56	44	37	35	35	44.7	227
18021	66	65	62	45	38	37	35	46.1	179
TOT	71	64	57	44	37	35	32	44.6	792

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.2	3.2	12.8	28.2	52.6	88	156		
06009	.0	.9	3.7	12.8	25.7	56.9	90	109		
12015	.0	1.3	4.6	12.5	28.9	52.6	88	137		
18021	.0	4.8	8.1	12.9	36.3	37.9	84	124		
TOT	0	14	26	69	161	271	87	541		

JUNE

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1969-1971AREA 0003 NE NEWFOUNDLAND COAST
48.0N 52.4W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND TMP OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 37	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0
23/29	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.1	3	.0
17/19	.0	.0	.0	.0	.0	.0	.1	.1	.7	.0	.1	8	.0
14/16	.0	.0	.0	.0	.3	.3	.0	.3	.3	.3	.0	10	.0
11/13	.0	.0	.0	.0	.6	.8	1.3	.9	.4	.1	.0	27	.0
9/10	.0	.0	.0	.0	.7	1.5	1.2	.4	.3	.0	.0	28	.4
7/8	.0	.0	.0	1.8	3.3	1.9	.7	.4	.0	.0	.0	53	1.2
6	.0	.0	.1	1.0	3.3	.9	.4	.1	.0	.0	.0	40	1.6
5	.7	.0	1.2	3.6	2.7	1.8	.9	.1	.0	.0	.0	68	3.0
4	.0	.1	1.6	2.7	3.4	.7	.3	.0	.0	.0	.0	60	4.0
3	.0	.0	4.3	4.6	3.1	.9	.0	.0	.0	.0	.0	87	3.8
2	.7	.1	4.7	4.3	2.7	1.3	.1	.0	.0	.0	.0	90	4.3
1	.0	.3	7.2	3.0	.6	.3	.0	.0	.0	.0	.0	77	3.7
0	.0	.6	4.7	1.3	.7	.0	.0	.0	.0	.0	.0	54	1.3
-1	.0	.6	3.3	1.0	.3	.1	.0	.0	.0	.0	.0	36	3.3
-2	.0	.1	1.3	.1	.1	.1	.0	.0	.0	.0	.0	13	.9
-3	.0	.3	.3	.7	.3	.0	.0	.0	.0	.0	.0	11	.6
-4	.1	.3	.1	.0	.0	.1	.0	.0	.0	.0	.0	5	.3
-5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
-6/-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0
TOTAL	2		106		150		35		24		2	192	434
PCT	.9	2.5	29.0	24.1	22.2	11.1	5.2	2.7	2.1	.8	.3	100.0	28.4

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	1.1	.0	.0	.0	3.3	.4	.2	.1	.0	.0	.0	.7
1-2	.7	.0	1.1	.0	.0	.0	1.8	.0	.4	.5	.0	.0	.0	1.0
3-4	.0	2.1	1.1	.0	.0	.0	3.2	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.4	2.5	.4	.0	.0	3.3	.0	.0	.7	.0	.0	.0	.7
7	.0	.4	1.2	.4	.4	.2	2.5	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	1.3	.0	.0	.2	1.3	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.4	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.2	9.0	1.7	.4	.0	17.1	.4	.6	3.0	.0	.0	.0	4.1

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	.4	.1	.4	.1	.0	.0	.0	.6
1-2	.0	.4	.0	.0	.0	.0	.4	.0	2.0	.0	.0	.0	.0	2.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.0	.4	.0	.0	2.2
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.3	1.2	.0	.0	.0	1.7
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.4	1.9	.4	.0	.0	3.2	.1	3.8	3.1	.4	.0	.0	7.5

PERIOD: (OVER-ALL) 1949-1971

JUNE

AREA 0003 NE NEWFOUNDLAND COAST
48.8N 52.4W

TABLE 18 (CONT)

PCT FREE OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	1.2	.6	.0	.0	.0	2.1	.4	.5	.5	.0	.0	.0	.0	1.5	
1-2	.4	3.0	.7	.0	.0	.0	4.2	.0	1.5	.5	.0	.0	.0	.0	2.0	
3-4	.0	1.8	5.2	2.0	.0	.0	8.9	.0	1.9	1.9	1.0	.0	.0	.0	4.8	
5-6	.0	.7	3.3	1.9	.0	.0	6.0	.0	.0	3.0	.6	.0	.0	.0	3.6	
7	.0	.0	.9	.3	.0	.0	1.2	.0	.0	.4	.8	.0	.0	.0	1.1	
8-9	.0	.0	.6	1.2	.0	.0	1.8	.0	.0	.6	1.8	.0	.0	.0	2.5	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	6.5	11.4	5.4	.0	.0	24.1	.4	4.0	7.1	4.5	.0	.0	.0	15.9	

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.4	.0	.0	.0	.0	.0	.4	.0	.5	.1	.0	.0	.0	.0	.6		
1-2	.0	1.6	.3	.0	.0	.0	1.9	.0	2.1	1.1	.0	.0	.0	.0	3.3		
3-4	.0	.7	1.4	.0	.0	.0	2.1	.0	.0	2.2	.0	.0	.0	.0	2.2		
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.4	2.4	.4	.0	.0	.0	3.2		
7	.0	.0	.4	.3	.0	.0	.7	.0	.0	1.7	1.3	.0	.0	.0	3.0		
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.6	.4	.0	.0	.0	1.1		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.4	.0	.0	1.3		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.4	2.4	3.8	.3	.0	.0	6.9	.1	3.1	8.1	3.4	.9	.0	.0	15.6	94.4	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.7	5.1	2.6	.0	.0	.0	15.3	
1-2	1.3	11.1	4.3	.0	.0	.0	16.6	
3-4	.4	7.2	14.0	9.6	.0	.0	25.1	
5-6	.0	2.1	13.7	9.4	.0	.0	21.3	
7	.0	.4	8.0	9.0	.0	.0	9.8	
8-9	.0	.0	3.8	9.8	.0	.0	7.7	
10-11	.0	.0	.9	1.3	.4	.0	2.6	
12	.0	.0	.0	.4	.4	.0	.9	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.4	.0	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.4	26.0	47.2	14.2	1.3	.0	100.0	235

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.2	7.5	17.2	10.0	1.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	154	4
6-7	.0	1.0	8.1	7.8	7.0	1.5	.2	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	6
8-9	.0	.0	.5	3.4	3.6	4.1	1.7	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	7
10-11	.0	1.0	.7	.2	.7	.7	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	6
12-13	.0	.0	.2	.0	.0	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
>13	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	5.8	4.4	1.9	2.7	1.2	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	3
TOTAL	25	97	110	100	99	98	12	7	2	2	0	0	0	0	0	0	0	0	0	412	5
PCT	6.1	13.8	28.7	24.3	14.3	9.2	2.9	1.7	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1954-1970
(OVER-ALL) 1879-1970AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	7.7	2.9	4.0	.0	.0	.0	.0	14.7	.7	1.5	17.6	1.5	6.6	.0	57.5
NE	15.5	2.4	3.0	.0	.0	.0	.0	20.8	.0	.0	17.9	.0	8.3	.0	53.0
E	5.4	.0	.0	.0	.0	.0	.0	5.4	1.0	.0	27.3	.0	3.9	.0	62.4
SE	5.7	.7	.7	.0	.0	.0	.0	7.1	1.1	.7	31.5	.0	4.8	.0	55.3
S	9.0	.3	2.1	.0	.0	.0	.0	11.3	1.0	.0	28.7	1.0	3.0	.0	54.9
SW	5.0	.4	1.3	.0	.0	.0	.0	6.7	.8	.2	17.1	.1	6.5	.0	68.6
W	3.1	1.0	1.5	.0	.0	.0	.0	5.6	2.0	.5	9.7	.8	5.6	.0	75.8
NW	.7	.0	1.4	.0	.0	.0	.0	2.2	2.2	.0	16.3	.0	8.7	.0	70.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.6	4.5	4.5	.0	.0	.0	.0	72.7	.0	.0	31.8	.0	.0	.0	45.5
TOT PCT	6.5	.8	1.7	.0	.0	.0	.0	9.0	1.0	.3	22.3	.5	5.2	.0	61.8
TOT OBS:	1058														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	7.7	.4	2.1	.0	.0	.0	.0	10.2	.0	.7	16.8	.4	4.6	.0	67.7
06009	5.7	1.6	2.8	.0	.0	.0	.0	10.1	1.2	.4	23.9	.8	5.3	.0	58.3
12015	6.9	.7	.7	.0	.0	.0	.0	8.2	1.6	.0	30.3	.3	4.6	.0	54.9
18021	5.1	.4	2.0	.0	.0	.0	.0	7.5	1.2	.0	19.0	.4	6.3	.0	65.6
TOT PCT TOT OBS:	6.4 1089	.7	1.8	.0	.0	.0	.0	9.0	1.0	.3	22.7	.5	5.1	.0	61.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.7	2.9	2.5	.3	.1	.0		6.5	11.2		6.4	11.5	6.9	6.5	3.9	3.3	9.5	2.1
NE	.9	1.9	.9	.3	.0	.0		3.9	9.4		6.7	3.8	2.3	3.7	3.9	2.5	3.1	2.1
E	.2	1.9	2.6	.1	.0	.0		4.8	11.2		5.5	5.1	4.1	3.7	3.1	4.2	7.1	2.1
SE	.7	5.0	6.9	.6	.1	.0		13.3	12.2		17.1	9.0	13.2	12.0	13.1	5.0	12.4	14.6
S	.8	8.5	14.0	3.7	.0	.0		27.0	14.2		26.0	35.3	24.3	30.6	27.7	30.4	26.0	38.5
SW	.8	8.0	14.2	3.4	.1	.0		26.4	13.9		21.4	25.0	33.1	25.9	30.8	29.6	20.4	21.9
W	.2	3.4	4.6	1.1	.0	.0		9.4	12.9		7.2	7.7	7.6	13.0	10.2	19.2	10.5	6.3
NW	.4	2.2	2.8	1.1	.1	.0		6.6	14.0		6.0	2.6	6.7	4.6	4.8	5.8	9.6	12.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0		3.9	.0	1.7	.0	2.4	.0	1.3	.0
TOT OBS	76	372	537	116	4	0	1105		12.9		255	39	229	27	247	60	224	24
TOT PCT	6.9	33.7	48.6	10.5	.4	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	1.7	3.4	1.2	.2	.0		6.5	11.2	7.1	6.8	3.8	8.8
NE	1.3	2.0	.6	.0	.0		3.9	9.4	6.3	2.4	3.7	3.0
E	1.0	3.3	.5	.0	.0		4.8	11.2	5.4	4.1	3.3	6.7
SE	2.4	8.2	2.5	.2	.0		13.3	12.2	16.0	13.1	11.5	12.6
S	3.4	14.0	8.8	.8	.0		27.0	14.2	27.2	25.0	28.3	27.2
SW	3.2	14.8	7.7	.7	.0		26.4	13.9	21.9	32.3	30.5	20.6
W	2.0	4.8	2.4	.2	.0		9.4	12.9	7.2	8.2	12.0	10.1
NW	1.3	3.0	1.8	.5	.0		6.6	14.0	5.5	6.4	5.0	9.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	3.4	1.6	2.0	1.2
TOT OBS	204	591	282	28	0	1105		12.9	294	256	307	248
TOT PCT	18.5	53.5	25.5	2.5	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1954-1970
(OVER-ALL) 1879-1970

JULY

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	3.4	5.8	34.0	47.3	8.8	.7	.0	12.4	100.0	294
06009	1.6	5.3	37.5	45.7	9.8	.0	.0	12.4	100.0	256
12015	2.0	3.6	35.2	49.5	9.1	.7	.0	12.9	100.0	307
18021	1.2	4.4	27.4	52.0	14.9	.0	.0	14.0	100.0	248
TOT	23	53	372	537	116	4	0	12.9		1105
PCT	2.1	4.8	33.7	48.6	10.5	.4	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL	MEAN
				OBS	OBS	CLOUD COVER
N	1.7	.4	.9	3.7		5.7
NE	.7	.2	.7	2.4		6.2
E	1.1	.4	1.3	2.5		5.8
SE	2.8	1.1	3.1	7.2		5.9
S	5.1	2.3	5.4	13.6		5.8
SW	8.0	3.1	4.9	9.2		4.8
W	2.7	1.2	2.3	3.2		5.0
NW	1.6	.7	.7	3.5		5.5
VAR	.0	.0	.0	.0		.0
CALM	.4	.2	.3	1.4		6.0
TOT OBS	224	89	183	432	928	5.5
TOT PCT	24.1	9.6	19.7	46.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

AND ACCURACY OF NH <5/8 BY WIND DIRECTION											
000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
1.1	.0	.4	1.5	.6	.4	.0	.0	.0	.2	2.5	
.8	.0	.1	1.0	.8	.1	.0	.0	.1	.2	1.1	
1.3	.0	.1	.5	.7	.0	.0	.1	.9	.2	2.2	
3.8	.0	.3	2.3	1.4	.6	.2	.0	.4	.1	5.1	
6.2	.0	.4	2.6	3.0	1.5	.4	.2	.8	.6	10.7	
3.4	.0	.2	2.5	2.2	1.5	.5	.2	.7	.6	13.6	
.8	.0	.3	1.1	1.3	.6	.2	.0	.5	.1	4.5	
.8	.1	.1	1.5	1.1	.9	.0	.0	.3	.0	2.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.8	.0	.0	.2	.3	.1	.0	.0	.0	.1	.9	
174	1	16	123	106	47	11	4	29	18	399	928
18.8	.1	1.7	13.3	11.4	5.1	1.2	.4	3.1	1.9	43.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >500	= OR >0
= OR >6500	5.2	4.7	5.0	5.0	5.0	5.2	5.2	5.2
= OR >5000	3.2	3.2	5.5	5.5	5.5	5.6	5.6	5.6
= OR >3500	3.9	6.1	6.7	6.7	6.7	6.8	6.8	6.8
= OR >2000	7.1	10.6	11.5	11.6	11.7	11.8	11.8	11.8
= OR >1000	11.6	19.2	21.9	22.5	22.9	23.0	23.0	23.1
= OR >600	17.6	29.4	34.5	35.6	36.1	36.3	36.3	36.4
= OR >300	17.9	30.2	35.9	37.1	37.7	37.9	37.9	38.0
= OR >150	17.9	30.2	35.9	37.1	37.7	37.9	37.9	38.1
= OR >0	18.0	30.9	38.1	40.1	43.2	45.5	52.3	57.2
TOTAL	168	288	355	374	403	424	487	533

TOTAL NUMBER OF OBS: 932

PCT FREQ NH <5/8: 42.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	8 OBS	TOTAL
										OBS
15.8	9.0	9.3	5.3	3.5	5.0	7.0	7.4	19.6	18.2	969

JULY

PERIOD: (PRIMARY) 1954-1970
(OVER-ALL) 1879-1970AREA 0003 NE NEWFOUNDLAND COAST
49.0N 92.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.2	.0	.1	.3	.2	*	.0	.0	.0	.9	
	NO PCP	.8	.2	.5	2.2	5.9	3.2	.5	.6	.0	.6	14.3	
	TOT %	.9	.4	.5	2.3	6.1	3.4	.6	.6	.0	.6	15.4	
1/2<1	PCP	.0	.0	.0	*	.2	.0	.0	.0	.0	.0	.3	
	NO PCP	.1	.3	.4	1.2	.7	.4	.2	.1	.0	.0	3.4	
	TOT %	.1	.3	.4	1.3	.9	.4	.2	.1	.0	.0	3.7	
1<2	PCP	.1	.1	.0	.1	.2	.1	.0	*	.0	.0	.6	
	NO PCP	.1	.3	.4	.3	.3	1.1	.2	.0	.0	.1	2.6	
	TOT %	.2	.4	.4	.4	.4	1.2	.2	*	.0	.1	3.2	
2<5	PCP	.4	.1	.2	.1	1.1	.4	.2	.1	.0	.1	2.7	
	NO PCP	.4	.1	.1	.8	1.3	1.0	.2	.9	.0	.0	4.8	
	TOT %	.9	.3	.3	.9	2.4	1.4	.4	1.0	.0	.1	7.6	
5<10	PCP	.4	.4	.1	.4	.9	.9	.2	.0	.0	.3	3.5	
	NO PCP	1.0	.8	.4	2.3	4.9	4.6	2.6	2.2	.0	.1	18.8	
	TOT %	1.3	1.0	.5	2.8	5.8	5.5	2.9	2.2	.0	.4	22.3	
10+	PCP	.0	.0	.0	.2	.4	.1	.1	.0	.0	.1	.9	
	NO PCP	3.1	1.7	2.7	5.5	11.1	14.1	5.1	2.6	.0	.9	46.8	
	TOT %	3.1	1.7	2.7	5.7	11.6	14.3	5.2	2.6	.0	.9	47.8	
TOT OBS													1057
TOT PCT													6.5 4.0 4.8 13.3 27.3 26.2 9.3 6.5 .0 2.1 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.0	.0	.0	.3	.2	.0	*	.0	.6	1.3	
	4-10	.6	.3	.2	1.0	2.0	.8	.3	.2	.0	.0	5.4	
	11-21	.1	.1	.3	1.3	2.7	1.7	.3	.4	.0	.0	6.8	
	22+	.0	.0	.0	*	1.0	.8	.0	.0	.0	.0	1.8	
	TOT %	.9	.4	.5	2.4	6.1	3.4	.6	.6	.0	.6	15.3	
1/2<1	0-3	.0	.1	.0	.1	.2	.1	.0	.1	.0	.0	.6	
	4-10	.1	.2	*	.5	.2	.1	.1	.0	.0	.0	1.3	
	11-21	.0	.0	.3	.5	.5	.2	.1	.0	.0	.0	1.7	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.3	.3	1.2	.9	.4	.2	.1	.0	.0	3.6	
1<2	0-3	.0	.1	.1	.0	.0	.0	.1	.0	.0	.1	.4	
	4-10	.0	.1	.1	.1	.2	.3	.0	.0	.0	.0	.7	
	11-21	.2	*	.2	.2	.3	.8	.0	*	.0	.0	1.7	
	22+	.0	.2	.0	.1	.0	.2	.1	.0	.0	.0	.6	
	TOT %	.2	.4	.4	.4	.4	1.2	.2	*	.0	.1	3.3	
2<5	0-3	.2	.0	.0	.0	.0	.1	.0	.0	.0	.1	.4	
	4-10	.3	.2	.2	.3	.6	.5	.0	.3	.0	.0	2.3	
	11-21	.4	*	*	.5	1.4	.7	.3	.5	.0	.0	4.0	
	22+	.0	.0	.1	.1	.3	.1	.0	.2	.0	.0	.8	
	TOT %	.9	.3	.3	.9	2.4	1.4	.3	.9	.0	.1	7.5	
5<10	0-3	.1	.2	.1	.2	.1	.1	.0	.0	.0	.4	1.1	
	4-10	.6	.5	.2	.8	1.6	1.7	1.1	.9	.0	.0	6.8	
	11-21	.6	.3	.2	1.5	3.1	3.2	1.2	1.1	.0	.0	11.1	
	22+	.0	.0	.0	.2	.9	.6	.5	.8	.0	.0	3.0	
	TOT %	1.3	.9	.5	2.7	5.7	5.5	2.8	2.2	.0	.4	22.0	
10+	0-3	.2	.5	.0	.4	.3	.4	.2	.3	.0	.9	3.1	
	4-10	1.4	.6	1.1	2.2	3.8	4.4	1.8	1.4	.0	.0	16.7	
	11-21	1.3	.5	1.6	3.0	6.2	7.5	2.8	.9	.0	.0	23.7	
	22+	.4	.1	.0	.2	1.5	1.8	.6	.2	.0	.0	4.7	
	TOT %	3.3	1.7	2.7	5.8	11.7	14.1	5.3	2.8	.0	.9	48.2	
TOT OBS													1082
TOT PCT													6.6 4.0 4.8 13.4 27.2 26.1 9.4 6.6 .0 2.0 100.0

JULY

PERIOD: (PRIMARY) 1954-1970
(OVER-ALL) 1879-1970AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00003	16.7	.0	1.6	16.3	8.5	4.9	1.6	.4	3.3	1.2	54.5	45.5	246
06009	22.1	.0	1.7	14.3	10.0	3.9	.4	.4	3.0	.4	56.3	43.7	231
12015	21.1	.4	2.4	6.4	15.5	4.8	2.0	.4	2.4	3.6	59.0	41.0	251
18021	15.2	.0	.9	15.7	10.3	6.3	.4	.4	4.0	2.2	55.6	44.4	223
TOT	179	1	16	124	106	47	11	4	30	18	536	415	951
PCT	18.8	.1	1.7	13.0	11.1	4.9	1.2	.4	3.2	1.9	56.4	43.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	12.3	3.1	4.1	6.5	22.9	51.2	293
06009	16.1	4.7	2.4	7.5	21.3	48.0	254
12015	21.6	3.9	3.9	8.1	21.0	41.6	310
18021	12.8	2.3	2.7	8.2	22.6	51.4	257
TOT	177	39	37	84	244	533	1114
PCT	15.9	3.5	3.3	7.5	21.9	47.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <3/8 AND 5+	TOTAL OBS
00003	17.3	19.3	38.7	16.9	44.4	243
06009	22.6	25.2	43.8	14.6	41.6	226
12015	21.6	24.5	36.7	24.5	38.8	245
18021	15.6	18.3	37.6	20.6	41.7	218
TOT	180	204	365	179	388	932
PCT	19.3	21.9	39.2	19.2	41.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.1	.2	.0	.0	.0	.0	3	.3
75/79	.0	.1	.2	.5	.2	.1	.0	.0	11	1.2
70/74	.0	.2	.2	.7	.7	1.0	.0	.0	25	2.7
65/69	.0	.2	.2	.9	2.1	2.0	.5	.8	61	6.7
60/64	.0	.0	.3	.5	1.7	3.1	2.7	3.1	105	11.5
55/59	.0	.0	.0	.8	1.9	4.9	8.3	9.5	232	25.3
50/54	.0	.0	.0	.2	.5	2.4	9.6	18.3	285	31.1
45/49	.0	.0	.0	.0	.2	.4	4.7	12.6	164	17.9
40/44	.0	.0	.0	.0	.0	.0	.3	2.7	28	3.1
35/39	.0	.0	.0	.0	.0	.0	.0	.2	2	.2
TOTAL	0	5	10	35	67	127	240	432	916	100.0
PCT	.0	.5	1.1	3.8	7.3	13.9	26.2	47.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.2	.1	.0	.0	.0	.0
.2	.0	.0	.0	.2	.4	.4	.0	.0	.0
.2	.1	.1	.1	.8	.7	.6	.0	.0	.0
.2	.2	.5	.6	2.0	2.1	.8	.3	.0	.0
.5	.2	1.0	1.2	2.6	4.0	1.0	.7	.0	.2
.8	.9	1.3	3.1	7.0	7.9	2.9	.5	.0	.8
2.4	1.8	1.2	4.7	7.8	7.6	2.9	2.1	.0	.5
2.3	1.1	1.1	2.9	4.1	3.2	.6	2.0	.0	.5
.4	.1	.0	.8	.7	.2	.2	.7	.0	.0
.0	.0	.0	.0	.0	.0	.1	.1	.0	.0
7.0	4.3	5.1	13.5	25.6	26.3	9.5	6.5	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	74	71	66	53	44	42	39	54.3	297
06009	71	65	61	52	44	42	39	52.4	258
12015	75	72	67	53	46	42	37	54.3	314
18021	82	80	74	55	47	44	41	57.0	255
TOT	82	75	67	54	45	42	37	54.5	1124

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.8	6.4	15.6	25.2	48.0	86	250		
06009	.0	.0	4.1	13.6	24.9	57.5	69	221		
12015	.0	4.4	9.1	10.3	29.8	46.4	86	252		
18021	.0	13.4	9.5	18.9	24.9	35.3	80	201		
TOT	0	50	67	129	243	435	86	924		

JULY

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49.0N 52.9W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
28/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.2
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.1	.1	7	.0	.7
17/19	.0	.0	.0	.0	.0	.2	.0	.9	.2	.6	.0	.0	19	.0	1.9
14/16	.0	.0	.0	.0	.2	.1	.9	.5	.5	.5	.2	.0	29	.1	2.8
11/13	.0	.0	.0	.0	.8	1.2	1.8	1.4	.4	.3	.0	.0	59	.2	5.7
9/10	.0	.0	.0	.3	1.0	2.3	1.7	.3	.3	.0	.0	.0	61	.7	5.4
7/8	.0	.0	.3	1.3	3.1	3.4	1.2	.3	.6	.0	.0	.0	104	1.3	9.0
6	.0	.1	.2	1.6	3.9	2.1	.7	.6	.1	.0	.0	.0	93	2.2	7.1
5	.0	.0	1.2	1.9	3.4	2.2	.2	.3	.0	.0	.0	.0	92	2.3	6.9
4	.0	.3	.9	2.8	3.4	1.0	.8	.3	.0	.0	.0	.0	95	2.5	7.0
3	.0	.4	.9	3.3	3.0	1.4	.4	.3	.0	.0	.0	.0	97	2.4	7.3
2	.0	.2	1.7	3.3	2.3	.8	.0	.0	.0	.0	.0	.0	83	3.0	5.3
1	.0	.6	1.2	3.6	1.5	.9	.2	.0	.0	.0	.0	.0	80	1.7	6.3
0	.0	.1	2.1	2.6	1.4	.3	.1	.0	.0	.0	.0	.0	66	2.4	4.2
-1	.0	.6	1.5	1.3	.4	.4	.0	.0	.0	.0	.0	.0	42	1.3	2.9
-2	.0	.4	1.4	.5	.3	.2	.0	.0	.0	.0	.0	.0	28	1.3	1.5
-3	.1	.2	.8	.2	.7	.1	.0	.0	.0	.0	.0	.0	21	.2	1.9
-4	.0	.2	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	8	.0	.8
-5	.0	.1	.9	.1	.2	.0	.0	.0	.0	.0	.0	.0	13	.6	.7
-6	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
-7/-8	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
-9/-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-11/-13	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	33	137	231	257	166	80	54	74	16	5	1	1006	22.1	78.4
PCT	.2	3.3	13.6	23.0	25.5	16.5	8.0	5.4	2.4	1.6	.5	.1	100.0	22.1	77.9

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.8	.0	.0	.0	.0	.8	.0	.1	.1	.0	.0	.0	.2
3-4	.0	.3	.3	.0	.0	.0	.7	.0	1.0	1.0	.0	.0	.0	2.0
5-6	.0	.3	1.5	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	2.3	.0	.0	.0	4.1	.0	1.1	1.2	.0	.0	.0	2.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.4	1.0	.0	.0	.0	.0	1.4
1-2	.0	1.2	.3	.0	.0	.0	1.5	.0	1.8	1.8	.0	.0	.0	3.7
3-4	.0	.3	.0	.0	.0	.0	.3	.0	.5	2.1	.0	.0	.0	2.6
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.4	2.8	.9	.0	.0	4.1
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	1.0	.4	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	1.0	.0	.0	.0	2.5	.4	3.8	7.8	1.3	.0	.0	13.4

PERIOD: (OVER-ALL) 1963-1970

JULY

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.8	.0	.0	.0	.0	.8	.0	2.6	.0	.0	.0	.0	2.6	
1-2	.0	2.9	2.6	.0	.0	.0	5.5	.0	2.2	.3	.0	.0	.0	2.5	
3-4	.4	4.6	5.9	.9	.0	.0	11.7	.0	5.0	4.2	.9	.0	.0	10.1	
5-6	.0	.8	2.7	1.6	.0	.0	5.1	.0	.5	3.3	.0	.0	.0	4.3	
7	.0	.0	3.8	.8	.0	.0	4.6	.0	.4	5.3	1.5	.0	.0	7.3	
8-9	.0	.0	.7	2.5	.0	.0	3.2	.0	.0	.7	1.8	.0	.0	2.5	
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.5	.4	.0	.0	1.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	9.0	16.0	5.8	.0	.0	31.2	.0	10.8	14.3	5.2	.0	.0	30.9	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	1.3	1.2	.0	.0	.0	2.5	.0	.5	.5	.0	.0	.0	1.1	
3-4	.0	.8	.9	.0	.0	.0	1.6	.0	.1	.4	.0	.0	.0	.5	
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.5	1.1	.0	.0	.0	1.6	
7	.0	.0	.8	.3	.0	.0	1.1	.0	.5	.9	.0	.0	.0	.9	
8-9	.0	.0	.8	.8	.0	.0	1.5	.0	.0	.0	1.0	.0	.0	1.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	1.3	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.1	4.5	1.1	.0	.0	7.6	.0	1.6	2.9	2.3	.0	.0	6.8	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.2	5.2	.0	.0	.0	.0	7.4	
1-2	.0	10.9	7.0	.0	.0	.0	17.8	
3-4	.4	12.6	14.8	1.7	.0	.0	29.6	
5-6	.0	7.6	12.6	4.0	.0	.0	18.3	
7	.0	.4	12.6	3.0	.0	.0	16.1	
8-9	.0	.0	2.2	6.1	.0	.0	8.3	
10-11	.0	.0	.9	1.7	.0	.0	2.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.6	31.7	50.0	19.7	.0	.0	100.0	230

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	10.0	21.0	6.4	6.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	189	4
6-7	.0	1.7	8.1	5.7	6.7	3.6	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	116	5
8-9	.0	.2	1.7	3.8	4.3	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	6
10-11	.0	.0	.5	.0	1.2	.7	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	8
12-13	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
>13	.0	.0	.0	.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
UNDET	1.7	3.8	3.8	.7	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	2
TOTAL	11	66	147	72	76	93	10	2	2	0	0	0	0	0	0	0	0	0	0	419	4
PCT	2.6	15.8	35.1	17.2	18.1	7.9	2.4	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1957-1970
(OVER-ALL) 1869-1970AREA 0003 NE NEWFOUNDLAND COAST
49.1N 53.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE															OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST RLWG SNOW	NO SIG WEA						
N	11.9	4.0	3.4	.0	.0	.0	.0	19.3	.6	.6	8.1	.0	2.1	.0	69.3						
NE	11.5	.3	7.3	.0	.0	.0	.0	19.1	2.9	.3	13.4	.0	3.8	.0	60.5						
E	19.7	1.2	6.8	.0	.0	.0	.0	25.3	.9	1.2	11.2	1.2	1.2	.0	59.1						
SE	11.1	2.6	4.6	.0	.0	.0	.0	18.4	1.3	.7	19.4	.2	2.2	.3	57.6						
S	8.3	1.7	3.3	.0	.0	.0	.0	13.2	1.5	.0	19.4	1.4	3.5	.2	60.7						
SW	4.6	.3	2.4	.0	.0	.0	.0	7.2	1.2	.4	9.2	1.2	6.7	.0	73.9						
W	4.9	2.4	4.2	.0	.0	.0	.0	10.7	.0	1.3	8.2	.9	6.2	.0	72.7						
NW	8.0	.8	3.3	.0	.0	.0	.0	11.4	1.8	.4	14.5	.0	1.2	.8	69.8						
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0						
CALM	.0	4.0	4.0	.0	.0	.0	.0	8.0	.0	.0	24.0	.0	8.0	.0	60.0						
TOT PCT	8.7	1.7	3.9	.0	.0	.0	.0	14.0	1.2	.5	13.8	.7	3.8	.2	65.7						
TOT OBS:	1202																				

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	10.8	1.9	4.1	.0	.0	.0	.0	16.5	1.0	1.0	10.2	.6	2.5	.3	67.9
0600	10.6	1.2	4.3	.0	.0	.0	.0	13.3	2.0	1.2	14.9	.0	1.6	.0	65.1
1200	7.7	2.0	4.0	.0	.0	.0	.0	13.5	1.4	.0	17.8	1.4	5.2	.0	60.7
1800	6.4	1.3	3.4	.0	.0	.0	.0	11.1	.7	.0	11.4	.7	5.4	.3	70.5
TOT PCT TOT OBS:	8.8 1217	1.6	3.9	.0	.0	.0	.0	14.1	1.2	.5	13.6	.7	3.8	.2	65.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.3	2.8	3.9	1.4	.5	.1		9.9	14.3	11.9	3.6	9.5	5.8	8.3	9.7	10.4	15.9	
NE	1.1	2.5	7.3	.4	.2	.8		6.4	11.2	5.6	5.4	4.5	7.7	7.0	9.7	8.2	.0	
E	.4	3.7	2.4	.5	.1	.0		7.1	11.6	8.7	7.1	5.4	2.9	5.4	6.8	9.5	2.3	
SE	.3	4.0	4.9	1.8	.2	.0		12.2	14.5	15.9	10.7	9.1	13.5	10.6	5.7	14.2	6.8	
S	.7	5.8	17.7	2.9	.2	.0		22.3	14.7	24.9	26.8	24.3	19.4	20.8	23.9	18.7	34.1	
SW	.6	6.8	11.0	1.6	.1	.0		20.1	13.7	14.5	28.6	24.3	26.0	24.1	22.7	16.5	18.2	
W	.5	3.7	4.5	.7	.2	.0		9.6	13.2	6.6	8.9	11.3	19.2	11.9	9.7	7.7	11.4	
NW	.5	4.0	3.6	1.5	.8	.0		10.3	15.2	8.3	8.9	8.2	9.6	10.5	11.9	13.9	11.4	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.1							2.1	.0	3.7	.0	3.4	.0	1.3	.0	1.1	.0	
TOT OBS	93	415	979	135	27	1	1250		13.6	391	28	234	26	310	44	285	22	
TOT PCT	7.4	33.2	46.3	10.8	2.2	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	2.7	3.8	2.5	.8	.1		9.9	14.3	11.2	9.1	8.5	10.7		
NE	1.9	3.4	.8	.2	.1		6.4	11.2	5.5	4.8	7.3	7.6		
E	1.5	4.4	1.0	.2	.1		7.1	11.6	8.6	5.2	5.6	9.0		
SE	1.4	6.3	3.9	.7	.0		12.2	14.5	15.4	9.5	10.0	13.7		
S	2.0	11.9	7.8	.6	.0		22.3	14.7	25.1	23.4	21.2	19.8		
SW	2.6	11.1	5.9	.5	.0		20.1	13.7	19.7	24.4	23.9	16.6		
W	1.7	4.9	2.6	.3	.0		9.6	13.2	6.8	12.1	11.7	8.0		
NW	1.8	4.8	2.5	1.0	.2		10.3	15.2	8.4	8.4	10.7	13.7		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	2.1						2.1	.0	3.3	3.1	1.1	1.0		
TOT OBS	220	632	336	95	7	1250		13.6	329	260	354	307		
TOT PCT	17.6	50.6	26.9	4.4	.6		100.0		100.0	100.0	100.0	100.0		

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 PERIOD: (PRIMARY) 1957-1970
 (OVER-ALL) 1869-1970

 AREA 0003 NE NEWFOUNDLAND COAST
 49.1N 53.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.3	7.3	35.0	43.8	8.8	1.3	.3	12.8	100.0	329
0600	3.1	3.5	35.4	46.5	10.0	1.5	.0	13.3	100.0	260
1200	1.1	6.5	29.9	48.0	11.0	3.4	.0	14.1	100.0	354
1800	1.0	3.6	33.2	46.9	13.4	2.0	.0	14.2	100.0	307
TOT	26	67	415	579	135	27	1	13.6		1250
PCT	2.1	5.4	33.2	46.3	10.8	2.2	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.0	.7	2.1	5.4		5.9
NE	1.1	*	1.1	4.3		6.6
E	1.2	.4	1.3	4.0		6.2
SE	1.2	1.0	2.5	8.4		6.6
S	4.3	2.0	5.8	10.4		5.7
SW	6.5	2.0	5.2	6.1		4.7
W	3.7	1.7	2.0	1.5		3.6
NW	1.9	.9	2.3	4.9		5.8
VAR	.0	.0	.0	.0		.0
CALM	.7	.5	.3	.7		4.4
TOT OBS	248	100	249	503	1100	5.5
TOT PCT	22.5	9.1	22.6	45.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.1	.7	.3	1.9	2.0	.7	.3	.0	.1	.0	3.6	
NE	.7	.1	.4	1.1	1.7	.4	.3	.0	.1	.0	1.8	
E	.7	.2	.4	.8	1.7	.4	.1	.0	.3	.0	2.4	
SE	2.1	.1	.3	2.2	2.8	1.2	.3	.0	.1	.0	4.0	
S	3.1	.1	.7	1.7	2.8	1.4	.9	.0	.9	.5	10.4	
SW	1.2	.1	.2	1.4	2.3	1.0	.4	.2	.7	.3	12.3	
W	.5	.1	.0	.3	.5	.2	.0	.1	.1	.1	6.8	
NW	1.1	.1	.2	1.4	2.4	.5	.2	.0	.2	.2	3.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.1	.0	.2	.0	.0	.2	.0	1.5	
TOT OBS	117	9	28	120	177	88	29	2	29	12	509	1100
TOT PCT	10.6	.8	2.5	10.9	16.1	6.2	2.6	.2	2.6	1.1	46.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)	
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>0	>0
>6500	2.6	3.3	3.6	3.6	3.6	3.6	3.7	3.7	3.7	3.7
>5000	2.6	3.5	3.8	3.8	3.8	3.8	3.9	3.9	3.9	3.9
>3500	3.6	5.0	5.7	5.7	5.8	5.8	5.9	5.9	5.9	5.9
>2000	7.1	10.9	12.0	12.1	12.2	12.2	12.3	12.3	12.3	12.3
>1000	15.8	24.1	27.4	28.0	28.2	28.4	28.6	28.6	28.6	28.6
>600	19.8	31.0	36.9	38.2	38.8	39.0	39.2	39.2	39.2	39.2
>300	20.3	32.0	38.5	40.4	41.1	41.2	41.7	41.7	41.7	41.7
>150	20.3	32.1	38.6	40.8	41.7	42.1	42.5	42.5	42.5	42.5
>0	20.5	32.8	40.5	44.0	46.6	49.1	52.9	53.3	53.3	53.3
TOTAL	225	360	444	482	511	538	580	584	584	584

TOTAL NUMBER OF OBS: 1096

PCT FREQ NH <5/8: 46.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
15.6	11.5	8.9	6.1	4.1	4.3	9.1	6.8	23.4	10.1	1141

PERIOD: (PRIMARY) 1957-1970
(OVER-ALL) 1869-1970

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49.1N 53.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.2	.2	.6	.0	.2	.1	.0	.0	1.4	
	NO PCP	.3	.2	.2	.7	2.0	1.1	.4	.7	.0	.2	5.9	
	TOT %	.3	.3	.4	.9	2.5	1.1	.7	.8	.0	.2	7.3	
1/2<1	PCP	.2	.2	.3	.1	.3	.0	.0	.0	.0	.0	1.2	
	NO PCP	.0	.3	.1	.4	.5	.1	.1	.3	.0	.0	1.8	
	TOT %	.2	.6	.4	.5	.8	.1	.1	.3	.0	.0	3.0	
1<2	PCP	.2	.1	.4	.4	.2	.1	.0	.3	.0	.0	1.7	
	NO PCP	.1	.2	.2	.4	.4	.2	.0	.1	.0	.0	1.6	
	TOT %	.3	.3	.6	.8	.6	.3	.0	.4	.0	.0	3.3	
2<5	PCP	.6	.4	.4	.7	.5	.4	.2	.2	.0	.1	3.4	
	NO PCP	.6	.4	.3	1.1	1.8	.9	.5	.5	.0	.2	6.2	
	TOT %	1.2	.9	.7	1.7	2.3	1.2	.6	.7	.0	.3	9.7	
5<10	PCP	.6	.2	.1	.7	.8	.8	.3	.5	.0	.0	4.1	
	NO PCP	1.5	1.1	.7	2.1	3.8	4.6	1.6	1.8	.0	.2	17.4	
	TOT %	2.1	1.4	.8	2.8	4.6	5.4	2.0	2.3	.0	.2	21.5	
10+	PCP	.3	.1	.4	.2	.6	.2	.0	.0	.0	.1	2.2	
	NO PCP	5.4	3.0	3.7	5.6	10.9	11.8	5.7	5.6	.0	1.2	53.0	
	TOT %	5.7	3.1	4.1	5.8	11.5	12.0	6.0	5.6	.0	1.3	55.2	
TOT OBS													1201
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	*	.1	.0	.0	.1	.0	.0	.2	.7	
	4-10	.0	*	.2	.2	.8	.3	.3	.4	.0	.0	2.2	
	11-21	.2	*	.2	.6	1.2	.7	.3	.2	.0	.0	3.4	
	22+	.0	.2	.0	.0	.5	.1	.0	.2	.0	.0	1.0	
	TOT %	.3	.3	.5	.9	2.5	1.1	.7	.8	.0	.2	7.3	
1/2<1	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.2	.2	.2	.3	*	.1	.1	.0	.0	1.2	
	11-21	.0	.2	.2	.3	.4	.1	.0	.2	.0	.0	1.3	
	22+	.1	.1	.0	.0	.1	.0	.0	.1	.0	.0	.3	
	TOT %	.2	.6	.4	.5	.8	.1	.1	.3	.0	.0	2.9	
1<2	0-3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.1	.1	.1	.1	.0	.1	.1	.0	.0	.6	
	11-21	.0	.1	.3	.5	.4	.2	.0	.0	.0	.0	1.6	
	22+	.1	*	.2	.1	.1	.1	.0	.3	.0	.0	1.0	
	TOT %	.3	.3	.6	.8	.6	.3	.1	.4	.0	.0	3.4	
2<5	0-3	.0	.1	.1	*	.0	.0	.0	.0	.0	.3	.5	
	4-10	.2	.2	.1	.6	.4	.6	.1	.1	.0	.0	2.3	
	11-21	.6	.5	.4	.8	1.5	.5	.4	.4	.0	.0	4.9	
	22+	.3	.1	.1	.3	.5	.1	.1	.2	.0	.0	1.9	
	TOT %	1.2	.8	.7	1.7	2.3	1.2	.7	.7	.0	.3	9.6	
5<10	0-3	.0	.2	.1	.0	.3	.2	*	.2	.0	.2	1.1	
	4-10	.5	.5	.5	.8	1.0	1.7	.4	.8	.0	.0	6.1	
	11-21	.9	.6	.2	1.1	2.5	3.3	1.3	.7	.0	.0	10.5	
	22+	.7	.1	*	.9	.8	.2	.1	.6	.0	.0	3.4	
	TOT %	2.1	1.3	.8	2.7	4.5	5.3	1.9	2.2	.0	.2	21.1	
10+	0-3	1.1	.6	.2	.2	.4	.4	.3	.3	.0	1.3	4.9	
	4-10	1.8	1.5	2.7	2.1	3.2	4.0	2.6	2.4	.0	.0	20.3	
	11-21	2.1	1.0	1.1	2.8	6.8	6.4	2.5	2.2	.0	.0	24.9	
	22+	.6	.1	.2	.7	1.2	1.2	.7	.9	.0	.0	5.6	
	TOT %	5.7	3.1	4.3	5.7	11.6	12.1	6.0	5.8	.0	1.3	55.7	
TOT OBS													1222
TOT PCT													100.0

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PERIOD: (PRIMARY) 1957-1970
(OVER-ALL) 1869-1970AREA 0003 NE NEWFOUNDLAND COAST
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH $\geq 4/8$) AND
OCCURRENCE OF NH $< 3/8$ BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH $< 3/8$ ANY MGT	TOTAL OBS
00003	8.8	.7	2.0	11.5	13.9	6.8	3.7	.3	3.1	1.7	52.5	47.5	295
06009	14.3	.8	2.1	10.5	14.8	6.3	3.0	.0	3.0	1.3	56.1	43.9	237
12015	11.7	1.3	2.6	11.0	18.4	5.2	1.9	.3	1.6	1.0	55.0	45.0	309
18021	7.8	.4	3.2	9.5	16.3	6.7	1.8	.0	2.8	.4	48.8	51.2	283
TOT	118	9	28	120	179	70	29	2	29	12	596	528	1124
PCT	10.5	.8	2.5	10.7	15.9	6.2	2.6	.2	2.6	1.1	53.0	47.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	$< 1/2$	$1/2 < 1$	$1 < 2$	$2 < 5$	$5 < 10$	$10+$	TOTAL OBS
00003	5.0	2.2	4.6	7.5	21.2	59.6	321
06009	10.1	3.1	7.7	11.3	22.2	50.6	257
12015	9.9	3.7	7.5	11.6	21.5	50.7	353
18021	4.2	2.6	7.6	7.5	20.3	62.7	306
TOT	90	36	47	117	263	689	1237
PCT	7.3	2.9	3.4	9.5	21.3	55.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH $\geq 4/8$) BY HOUR

HOURL (GMT)	< 150 < 500	< 600 < 1	< 1000 < 5	$1000+$ AND $5+$	NH $< 3/8$ AND $5+$	TOTAL OBS
00003	9.0	12.2	29.2	24.3	46.5	288
06009	15.0	19.0	35.8	23.5	40.7	226
12015	11.9	18.2	34.7	23.1	42.2	303
18021	7.9	12.5	25.8	25.4	48.7	279
TOT	118	168	342	264	490	1096
PCT	10.8	15.3	31.2	24.1	44.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.1	.2	.0	.0	.0	.0	3	.3
75/79	.0	.2	.3	.3	.7	.2	.0	.1	18	1.8
70/74	.0	.2	.0	.4	1.0	1.4	1.6	.0	46	4.7
65/69	.0	.0	.4	1.3	2.1	3.8	2.8	1.0	112	11.5
60/64	.0	.0	.1	.7	2.1	5.4	6.9	.0	206	21.1
55/59	.0	.0	.0	.6	1.7	4.1	13.7	10.5	300	30.7
50/54	.0	.0	.0	.0	.6	2.9	7.0	12.7	226	23.1
45/49	.0	.0	.0	.0	.0	.8	1.7	4.3	67	6.9
TOTAL	0	4	9	35	82	182	329	337	978	100.0
PCT	.0	.4	.9	3.6	8.4	18.6	33.6	34.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0
75/79	.2	.0	.0	.0	.7	.5	.4	.1	.0	.0
70/74	.1	.1	.1	.2	1.7	1.4	.7	.9	.0	.1
65/69	.0	.0	.0	.7	3.2	3.3	1.0	.4	.0	.5
60/64	.0	.0	1.8	3.1	5.4	4.5	1.9	2.2	.0	.8
55/59	3.1	2.4	2.7	5.1	5.7	5.3	3.0	3.1	.0	.2
50/54	3.9	2.2	2.0	3.5	3.0	2.7	2.0	3.3	.0	.5
45/49	1.8	1.0	.8	.5	.4	.3	.2	1.7	.0	.2
TOTAL	10.7	6.9	8.1	13.1	20.1	18.3	9.2	11.1	.0	2.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	74	69	57	49	43	45	57.6	330
06009	71	69	66	55	48	46	45	56.0	265
12015	78	73	69	57	49	46	44	57.8	356
18021	82	79	74	60	50	47	46	60.6	309
TOT	82	76	70	57	49	46	44	58.0	1260

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.1	7.3	17.9	36.3	35.5	85	262
06009	.0	.0	3.4	11.3	35.3	50.0	89	204
12015	.0	2.1	7.0	19.0	37.0	34.9	83	284
18021	.0	14.2	15.0	24.2	25.8	20.8	77	240
TOT	0	48	82	182	334	344	84	990

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PERIOD: (PRIMARY) 1957-1970
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TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	3	.0	.3
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	5	.0	.5
17/19	.0	.0	.0	.0	.0	.0	.2	.2	.0	.2	.0	6	.0	.5
14/16	.0	.0	.0	.0	.0	.0	.5	.8	.7	.3	.0	26	.0	2.4
11/13	.0	.0	.0	.1	.2	1.0	2.4	.9	.3	.1	.0	54	.1	4.8
9/10	.0	.0	.0	.0	.5	1.3	2.0	.6	.4	.0	.0	52	.3	4.4
7/8	.0	.0	.0	.5	1.8	2.0	1.3	1.6	.1	.0	.0	80	.7	6.3
6	.0	.0	.1	1.2	1.4	1.5	.8	.4	.0	.0	.0	59	.5	4.9
5	.0	.0	.1	1.2	2.5	3.3	.9	.4	.0	.0	.0	93	.7	7.7
4	.0	.0	.5	1.6	3.2	1.3	.4	.0	.0	.0	.0	76	1.4	5.4
3	.0	.1	.8	3.1	2.4	1.2	.4	.1	.0	.0	.0	88	1.5	6.4
2	.0	.1	.9	3.6	3.3	1.0	.4	.0	.0	.0	.0	102	1.4	7.8
1	.0	.1	2.2	3.8	2.3	1.0	.1	.0	.0	.0	.0	104	1.6	7.8
0	.0	.3	2.1	3.4	1.7	.4	.1	.0	.0	.0	.0	88	1.0	7.0
-1	.0	.4	2.3	2.8	1.5	.3	.0	.0	.0	.0	.0	80	1.7	5.5
-2	.0	.2	1.6	1.9	.9	.3	.0	.0	.0	.0	.0	54	1.0	3.9
-3	.0	.8	1.6	1.4	.5	.1	.0	.0	.0	.0	.0	49	.4	4.1
-4	.0	.7	.9	.5	.3	.0	.0	.0	.0	.0	.0	27	.3	2.2
-5	.0	1.0	.7	.9	.4	.0	.0	.0	.0	.0	.0	33	.4	2.6
-6	.0	.5	.5	.3	.1	.0	.0	.0	.0	.0	.0	14	.0	1.3
-7/-8	.1	.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	10	.0	.9
-9/-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-11/-13	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	48	163	293	251	161	93	55	1.6	1.1	1	1105	144	961
PCT	.1	4.3	14.8	26.5	22.7	14.6	9.3	5.0	1.6	1.0	.1	100.0	13.0	87.0

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.8	.0	.0	.0	.0	.8	.4	1.0	.4	.0	.0	.0	1.8
1-2	.0	1.2	.8	.0	.0	.0	1.9	.0	.4	.9	.0	.0	.0	1.0
3-6	.0	.4	1.5	.0	.0	.0	1.9	.0	.4	.5	.0	.0	.0	1.0
5-6	.0	.0	.8	.3	.0	.0	1.1	.0	.4	.1	.1	.0	.0	.6
7	.4	.0	.8	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.4	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.9	.0	1.3	.0	.0	.0	.0	.4	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.1	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.8	3.8	.8	.9	.3	8.9	.4	2.3	2.0	.1	.4	.1	5.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	3.7	.1	.0	.0	.0	3.8
1-2	.0	.9	.4	.0	.0	.0	1.5	.0	.0	1.1	.0	.0	.0	1.1
3-6	.0	.0	.8	.0	.0	.0	.8	.0	.1	2.2	.0	.0	.0	2.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.9	.0	.0	2.3
7	.0	.4	.0	.0	.0	.0	.4	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.4	.0	.0	.0	.0	.4	.0	.0	.4	1.3	.0	.0	1.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.0	.0	.0	.3	.0	.0	.6	.0	.4	.0	1.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	1.7	.0	.0	.0	3.4	.0	3.8	7.1	2.7	.4	.0	14.0

PERIOD: (OVER-ALL) 1963-1970

AUGUST

AREA 0003 NE NEWFOUNDLAND COAST
49.1N 53.0W

TABLE 18 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.9	1.1	.0	.0	.0	3.3	.9	1.6	.1	.0	.0	.0	2.6
1-2	.0	4.1	1.8	.0	.0	.0	5.9	.0	2.7	1.6	.0	.0	.0	5.3
3-4	.0	1.8	4.6	.0	.0	.0	6.5	.0	2.0	6.4	.9	.0	.0	9.3
5-6	.0	.0	3.1	.3	.0	.0	3.4	.0	.4	1.9	.5	.0	.0	2.9
7	.0	.0	2.4	.8	.0	.0	3.1	.0	.0	1.3	.1	.0	.0	1.4
8-9	.0	.0	.3	.9	.0	.0	1.2	.0	.0	1.0	.0	.0	.0	1.0
10-11	.0	.0	.9	.0	.0	.0	.9	.0	.4	.0	.0	.0	.0	.4
12	.0	.0	.0	.4	.0	.0	.4	.0	.4	.0	.0	.0	.0	.4
13-16	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.4	.3	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.2	15.0	2.7	.0	.0	25.9	.9	8.6	12.3	1.9	.0	.0	23.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.8	.0	.0	.0	.0	1.8	.0	1.4	.0	.0	.0	.0	1.4	
1-2	.0	.4	.3	.0	.0	.0	.8	.0	.1	.5	.0	.0	.0	.6	
3-4	.0	1.6	.3	.0	.0	.0	1.9	.0	.4	1.0	.4	.0	.0	1.8	
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	2.6	.4	.0	.0	3.0	
7	.0	.0	1.9	.3	.0	.0	2.3	.0	.0	.5	.1	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.9	3.9	.3	.0	.0	8.1	.0	1.9	4.6	1.4	.4	.0	8.4	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.4	12.5	1.7	.0	.0	.0	17.7	
1-2	.0	10.8	7.3	.0	.0	.0	18.1	
3-4	.0	6.9	17.2	1.3	.0	.0	25.4	
5-6	.0	.9	11.2	2.6	.0	.0	14.7	
7	.4	.4	8.2	1.3	.0	.0	10.3	
8-9	.0	.4	1.7	2.6	.0	.0	4.7	
10-11	.0	.9	1.3	.4	.0	.0	2.6	
12	.0	.4	.0	.4	.0	.0	.9	
13-16	.0	.0	1.3	.9	2.2	.0	4.3	
17-19	.0	.0	.4	.4	.0	.0	.9	
20-22	.0	.0	.0	.0	.0	.4	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.9	33.2	50.4	9.9	2.2	.4	100.0	232

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.2	11.5	20.7	7.6	4.0	.4	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	209	3
6-7	.0	1.3	7.0	8.8	7.0	5.6	1.8	.7	1.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	132	6
8-9	.0	.2	.4	.4	1.6	.4	.9	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	8
10-11	.0	.0	.0	.0	.0	.0	.0	.7	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	9	19
12-13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.2	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	11
TOTDET	3.1	3.4	2.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	2
TOTAL	24	74	138	80	60	29	12	8	14	3	3	0	0	0	0	0	0	0	0	445	5
PCT	5.4	16.6	31.0	13.0	13.5	6.5	2.7	1.8	3.1	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1957-1970
(OVER-ALL) 1869-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.2N 53.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRFL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	9.1	1.1	1.7	.0	.0	.0	.0	11.8	2.3	.0	5.4	.0	.0	.0	79.9
NE	14.9	.0	3.0	.0	.0	.0	.0	18.5	.0	.0	12.2	.0	1.1	.0	68.2
E	9.9	1.9	1.6	.0	.0	.0	.0	13.4	2.5	.0	7.8	.9	1.2	.0	74.2
SE	13.1	1.1	1.1	.0	.0	.0	.0	15.4	.3	.0	10.3	.3	3.4	1.1	69.1
S	9.2	1.1	.0	.0	.0	.0	.0	10.2	1.3	.0	12.0	1.1	4.7	.0	70.7
SW	1.9	1.4	1.9	.0	.0	.0	.0	9.2	.4	.0	9.8	.0	4.0	.0	80.0
W	4.3	.0	.0	.0	.0	.0	.0	5.0	.0	.0	5.6	.0	1.3	.0	88.1
NW	2.4	1.8	.9	.0	.0	.0	.0	5.2	1.7	.0	4.8	.0	1.7	.0	88.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	4.8	.0	.0	.0	.0	4.8	.0	.0	14.3	.0	4.8	.0	76.2
TOT PCT	7.1	1.2	1.3	.0	.0	.0	.0	9.5	1.1	.0	8.6	.3	2.6	.2	77.7
TOT OBS:	1092														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRFL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0603	6.2	1.0	.7	.0	.0	.0	.0	7.9	1.7	.0	8.2	.0	2.1	.3	79.8
0609	8.3	.5	1.5	.0	.0	.0	.0	10.3	.0	.0	9.8	.0	.5	.0	79.4
12015	6.5	1.6	1.0	.0	.0	.0	.0	9.1	.6	.0	9.4	.0	3.6	.3	76.9
18021	7.5	1.4	2.4	.0	.0	.0	.0	11.2	1.7	.0	7.5	1.0	3.4	.0	75.3
TOT PCT	7.0	1.2	1.4	.0	.0	.0	.0	9.6	1.1	.0	8.6	.3	2.5	.2	77.7
TOT OBS:	1099														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)								TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+						00	03	06	09	12	15	18	21
N	.7	4.3	5.5	5.9	.1	.0			14.5	15.4		16.0	21.8	18.8	3.8	10.1	8.5	16.1	10.8
NE	.3	3.5	2.8	1.4	.1	.0			8.2	13.7		8.8	6.5	7.4	1.9	8.6	6.5	8.2	14.2
E	.8	2.9	3.5	.2	.0	.0			7.4	11.5		9.8	4.8	5.3	5.8	6.3	5.0	8.6	5.0
SE	.7	2.1	4.2	1.0	.0	.0			7.9	13.9		10.8	7.3	6.9	3.8	6.4	9.5	8.0	3.3
S	.5	4.9	9.0	2.4	.7	.1			17.5	15.0		19.6	23.4	19.7	5.8	15.9	20.0	16.1	37.5
SW	.6	4.7	10.6	3.3	.4	.0			19.6	19.3		15.1	21.0	22.6	38.5	23.6	21.0	18.8	10.8
W	.4	2.5	5.1	1.9	.3	.2			10.4	16.4		7.6	4.8	7.2	30.8	12.4	11.5	12.5	5.8
NW	.4	2.7	6.0	2.6	.6	.0			12.2	16.6		9.1	10.5	13.0	9.6	14.2	18.0	12.6	9.2
VAR	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2								2.2	.0		3.3	.0	3.2	.0	2.2	.0	1.1	3.3
TOT OBS	76	311	929	189	25	3	1133			14.7		271	31	185	26	269	50	271	30
TOT PCT	6.7	27.4	46.7	16.7	2.2	.3			100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)								TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+							00	03	06	09	12	15	18	21
N	2.0	6.9	4.1	1.5	.0				14.5	15.4		16.6	16.9	9.9	15.6				
NE	1.3	4.5	1.6	.8	.0				8.2	13.7		8.5	6.8	8.3	8.0				
E	1.3	4.9	1.0	.1	.0				7.4	11.5		9.3	5.3	6.1	8.2				
SE	1.4	3.9	2.2	.5	.0				7.9	13.9		10.4	6.5	6.9	7.6				
S	2.2	9.2	4.7	1.2	.1				17.5	15.0		20.0	14.5	16.5	18.2				
SW	2.1	9.6	6.9	1.0	.0				19.6	19.3		15.7	24.5	23.2	16.2				
W	1.0	5.2	3.2	.9	.2				10.4	16.4		7.3	10.1	12.4	11.8				
NW	1.4	5.4	4.0	1.5	.0				12.2	16.6		9.3	12.6	14.8	12.3				
VAR	.0	.0	.0	.0	.0				.0	.0		.0	.0	.0	.0				
CALM	2.2								2.2	.0		3.0	2.8	1.9	1.3				
TOT OBS	170	562	315	83	3	1133				14.7		302	211	319	301				
TOT PCT	15.0	49.6	27.8	7.3	.3				100.0			100.0	100.0	100.0	100.0				

SEPTEMBER

PERIOD: (PRIMARY) 1957-1970
(OVER-ALL) 1869-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.2N 53.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	3.0	5.0	29.5	44.7	16.6	1.3	.0	13.8	100.0	302
06009	2.8	5.2	30.8	43.6	14.7	2.8	.0	13.9	100.0	211
12015	1.9	5.0	24.8	47.0	17.6	3.4	.3	15.4	100.0	319
18021	1.3	3.0	25.9	50.5	17.3	1.3	.7	15.3	100.0	301
TOT	29	51	311	529	189	25	3	14.7		1139
PC	2.2	4.5	27.4	46.7	16.7	2.2	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	2.3	1.6	3.2	8.1		6.1
NE	1.6	.4	1.4	4.9		6.1
E	.7	.8	1.8	3.9		6.3
SE	1.7	.8	.9	4.2		5.7
S	4.0	1.9	4.1	7.4		5.5
SW	7.6	2.1	4.7	5.0		4.2
W	3.6	2.0	2.5	2.2		4.2
NW	2.2	1.8	4.0	4.4		5.5
VAR	.0	.0	.0	.0		.0
CALM	1.0	.0	.4	.6		3.9
TOT OBS	250	115	233	411	1009	5.3
TOT PCT	24.8	11.4	23.1	40.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.9	.0	.3	3.2	3.2	.9	.4	.1	.9	.0	5.4	
NE	.7	.0	.4	1.8	1.4	.5	.1	.0	.1	.1	3.1	
E	.5	.0	.2	1.2	1.7	.7	.1	.0	.4	.1	2.9	
SE	.6	.0	.3	1.4	1.2	.5	.1	.1	.0	.1	3.2	
S	1.5	.0	.6	1.5	2.2	1.0	.4	.2	.7	.4	8.7	
SW	1.0	.0	.2	1.5	1.6	1.0	.1	.0	1.5	.1	12.3	
W	.5	.1	.4	.8	1.0	.4	.1	.1	.4	.1	6.4	
NW	.5	.1	.1	2.0	3.0	1.1	.2	.1	.4	.2	4.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	.4	.1	.0	.0	.0	.2	1.1	
TOT OBS	60	7	26	136	159	64	16	6	46	14	474	1009
TOT PCT	6.5	.7	2.6	13.5	15.8	6.3	1.6	.6	4.6	1.4	47.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >4500	5.0	5.7	5.7	5.8	5.8	5.8	5.8	5.8
= OR >3000	5.8	6.3	6.3	6.4	6.4	6.4	6.4	6.4
= OR >2500	6.9	7.7	7.8	7.9	7.9	7.9	7.9	7.9
= OR >2000	11.4	14.0	14.2	14.3	14.3	14.3	14.3	14.3
= OR >1000	21.1	28.2	29.4	29.8	30.0	30.0	30.0	30.0
= OR >600	27.4	37.3	42.2	43.3	43.5	43.6	43.6	43.6
= OR >300	27.9	40.9	44.2	45.5	45.8	46.1	46.1	46.1
= OR >150	28.0	41.0	44.3	45.7	46.0	46.3	46.3	46.3
= OR >0	28.0	41.1	45.6	46.0	46.4	51.0	52.9	53.0
TOTAL	283	415	461	485	499	515	534	535

TOTAL NUMBER OF OBS: 1010

PCT FREQ NH <5/8: 47.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	18.7	9.9	7.6	6.7	3.8	5.0	8.8	8.6	24.5	6.4	1079

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PERIOD: (PRIMARY) 1957-1970
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AREA 0003 NE NEWFOUNDLAND COAST
49.2N 53.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.4	.3	.3	.2	1.1	.4	.3	.2	.0	.0	3.2	
	TOT %	.6	.4	.5	.3	1.1	.4	.3	.2	.0	.0	3.8	
1/2<1	PCP	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	*	.1	.0	.2	.4	.1	.0	.2	.0	.1	1.2	
	TOT %	*	.2	.0	.3	.5	.1	.0	.2	.0	.1	1.5	
1<2	PCP	.2	.2	.1	.0	.1	.2	.1	.0	.0	.0	.8	
	NO PCP	.2	.6	.3	.1	.1	.3	.2	.1	.0	.1	1.9	
	TOT %	.3	.8	.4	.1	.1	.5	.3	.1	.0	.1	2.8	
2<5	PCP	.5	.6	.4	.5	.4	.1	.2	.3	.0	.1	3.0	
	NO PCP	.2	.4	.2	.6	.3	1.1	.2	.3	.0	.2	3.4	
	TOT %	.7	.9	.6	1.1	.8	1.2	.4	.6	.0	.3	6.4	
5<10	PCP	.7	.5	.2	.5	.8	.4	.2	.1	.0	.0	3.5	
	NO PCP	3.0	1.0	1.3	1.4	2.4	2.8	1.3	2.8	.0	.1	16.1	
	TOT %	3.7	1.5	1.5	1.9	3.2	3.2	1.5	3.0	.0	.1	19.6	
10+	PCP	.2	*	.1	.1	.3	.3	.1	.2	.0	.0	1.4	
	NO PCP	9.3	4.3	4.3	4.3	10.8	13.8	8.1	8.1	.0	1.4	64.6	
	TOT %	9.5	4.5	4.5	4.4	11.1	14.1	8.2	8.3	.0	1.4	66.0	
TOT OBS													1089
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.1	*	.0	.1	.0	.0	.0	.0	.3	
	4-10	.4	.2	.2	.2	.4	.1	.1	.1	.0	.0	1.8	
	11-21	.2	.1	.1	*	.8	.2	.2	.0	.0	.0	1.6	
	22+	.0	.0	.0	.0	*	*	.0	.1	.0	.0	.2	
	TOT %	.6	.4	.4	.3	1.2	.5	.2	.2	.0	.0	3.9	
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.2	
	4-10	.0	.1	.0	.0	.1	.1	.0	.1	.0	.0	.4	
	11-21	*	.0	.0	.3	.2	.0	.0	.1	.0	.0	.6	
	22+	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.3	
	TOT %	*	.2	.0	.3	.5	.1	.0	.2	.0	.1	1.4	
1<2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.2	
	4-10	.1	.2	.3	.1	.0	.1	.0	.0	.0	.0	.8	
	11-21	.2	.5	.1	.0	.1	.2	.2	*	.0	.0	1.3	
	22+	.1	.1	.0	.0	.1	*	.1	.1	.0	.0	.4	
	TOT %	.3	.8	.4	.1	.1	.4	.3	.1	.0	.1	2.7	
2<5	0-3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.3	.4	
	4-10	.0	.2	.2	.3	.0	.1	.2	.1	.	.0	1.1	
	11-21	.2	.2	.4	.5	.5	.8	*	.4	.0	.0	3.0	
	22+	.4	.5	.0	.2	.3	.3	.1	.1	.0	.0	1.8	
	TOT %	.7	.9	.6	1.0	.8	1.2	.4	.6	.0	.3	6.3	
5<10	0-3	.1	.1	.0	.0	.0	.1	.0	.1	.0	.1	.4	
	4-10	.4	.4	.7	.3	.9	.9	.5	.4	.0	.0	4.5	
	11-21	1.7	.6	.7	1.2	1.7	1.4	.5	1.2	.0	.0	9.0	
	22+	1.4	.3	*	.3	.6	.9	.5	1.3	.0	.0	5.3	
	TOT %	3.6	1.5	1.5	1.8	3.2	3.2	1.5	2.9	.0	.1	19.2	
10+	0-3	.5	.2	.6	.6	.4	.4	.4	.2	.0	1.6	5.1	
	4-10	3.3	2.4	1.5	1.2	3.3	3.1	1.7	2.1	.0	.0	18.6	
	11-21	3.4	1.4	2.3	2.2	5.8	7.9	4.2	4.4	.0	.0	31.5	
	22+	2.2	.6	.2	.5	1.9	2.5	1.8	1.7	.0	.0	11.4	
	TOT %	9.4	4.6	4.6	4.5	11.5	13.9	8.1	8.4	.0	1.6	66.6	
TOT OBS													1116
TOT PCT													100.0

SEPTEMBER

PERIOD: (PRIMARY) 1957-1970
(OVER-ALL) 1869-1970AREA 0003 NE NEWFOUNDLAND COAST
49.2N 53.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3000	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	6.9	.4	2.7	13.1	15.0	4.6	1.5	1.2	5.0	.8	51.2	48.8	260
06009	12.4	.5	3.1	13.9	8.2	8.8	2.6	.0	5.7	1.0	56.2	43.8	194
12015	4.3	.0	2.2	12.5	19.4	7.2	.4	.4	3.9	2.5	52.7	47.3	279
18021	4.6	.0	2.5	14.4	17.5	5.6	2.1	.7	3.9	1.1	52.3	47.7	285
TOT	67	2	26	137	159	85	16	6	46	14	538	480	1018
PCT	6.6	.2	2.6	13.5	15.6	6.4	1.6	.6	4.5	1.4	52.8	47.2	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	3.7	2.0	1.3	5.0	19.4	68.6	299
06009	4.8	1.9	2.9	7.7	18.8	63.9	208
12015	3.8	1.6	3.5	6.3	18.9	65.9	317
18021	4.0	.3	3.3	6.4	19.1	66.9	299
TOT	45	16	31	70	214	747	1123
PCT	4.0	1.4	2.8	6.2	19.1	66.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	7.0	10.1	24.1	27.6	48.2	257
06009	12.4	16.6	33.7	24.4	42.0	193
12015	4.3	7.2	22.7	32.1	45.1	277
18021	4.6	7.8	26.1	27.6	46.3	283
TOT	67	100	264	285	461	1010
PCT	6.6	9.9	26.1	28.2	45.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
75/79	.0	.1	.2	.0	.2	.1	.0	.0	6	.6
70/74	.0	.1	.4	.2	.3	.1	.1	.0	12	1.2
65/69	.0	.0	.2	.5	1.9	1.0	.4	.1	40	4.1
60/64	.0	.1	.5	.9	2.2	2.6	2.3	1.9	101	10.4
55/59	.0	.1	.4	1.0	2.9	5.6	7.5	6.6	234	24.2
50/54	.0	.0	.0	.9	3.3	6.1	10.5	12.3	321	32.2
45/49	.0	.0	.0	.2	2.7	3.2	8.5	6.9	208	21.5
40/44	.0	.0	.0	.3	1.2	2.0	.8	.4	42	4.3
35/39	.0	.0	.0	.0	.1	.1	.1	.1	3	.3
TOTAL	0	4	18	37	131	195	305	278	968	100.0
PCT	.0	.4	1.9	3.8	13.5	20.1	31.5	28.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
75/79	.0	.0	.0	.0	.2	.2	.3	.0	.0	.0
70/74	.0	.0	.0	.0	.5	.8	.0	.0	.0	.0
65/69	.3	.2	.0	.0	1.5	1.7	.4	.1	.0	.0
60/64	.7	.3	.6	.6	2.7	3.8	1.0	.5	.0	.2
55/59	1.8	1.2	1.9	2.5	5.3	5.2	2.8	2.7	.0	.7
50/54	4.0	3.2	3.0	3.9	5.8	5.1	3.6	3.9	.0	.5
45/49	6.4	2.8	1.6	.9	1.6	1.5	2.0	4.0	.0	.5
40/44	1.2	.2	.1	.1	.3	.4	.4	1.5	.0	.1
35/39	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0
TOTAL	14.7	7.9	7.2	8.1	17.9	18.8	10.5	12.9	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	69	68	64	52	44	42	40	57.7	306
06009	76	66	61	51	44	41	39	51.7	212
12015	71	66	63	53	46	41	38	53.1	318
18021	80	76	70	55	46	43	39	56.0	300
TOT	80	71	65	53	45	41	38	53.5	1136

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)										
00003	.0	2.7	9.9	21.8	34.4	31.3	83	262		
06009	.0	1.1	4.4	16.0	38.1	40.3	86	181		
12015	.0	2.2	17.8	22.7	30.5	26.8	81	269		
18021	.0	16.9	18.8	18.8	25.3	20.3	75	261		
TOT	0	59	131	196	307	280	81	973		

SEPTEMBER

PERIOD: (PRIMARY) 1957-1970
(OVER-ALL) 1869-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.2N 53.2W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	43 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	2	.0	.2
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	5	.0	.5
17/19	.0	.0	.0	.0	.1	.0	.0	.0	.4	.4	.0	9	.0	.9
14/16	.0	.0	.0	.0	.0	.0	.4	.8	.5	.1	.0	18	.0	1.7
11/13	.0	.0	.0	.0	.1	.1	.7	1.0	.2	.0	.0	21	.1	1.9
9/10	.0	.0	.1	.1	.0	1.2	1.4	1.0	.0	.0	.0	38	.3	3.4
7/8	.0	.0	.0	.5	.6	2.7	1.8	.5	.0	.0	.0	63	.3	5.8
6	.0	.0	.0	.1	1.0	1.1	1.1	.1	.1	.0	.0	35	.2	3.2
5	.0	.0	.0	.6	2.0	1.5	1.0	.2	.0	.0	.0	55	.5	4.8
4	.0	.0	.1	1.3	2.5	1.4	.4	.0	.0	.0	.0	59	1.0	4.7
3	.0	.0	.2	.9	2.7	1.8	.2	.0	.0	.0	.0	60	.6	5.2
2	.0	.1	.4	2.3	2.9	1.4	.1	.1	.0	.0	.0	76	.4	6.9
1	.0	.1	.5	3.2	2.6	1.0	.4	.0	.0	.0	.0	80	1.2	6.6
0	.0	.0	.8	3.8	3.2	.8	.0	.0	.0	.0	.0	88	.9	7.6
-1	.0	.3	1.4	3.6	3.1	.9	.1	.0	.0	.0	.0	97	.8	8.6
-2	.0	.2	1.8	2.3	2.0	.1	.0	.0	.0	.0	.0	67	.7	5.8
-3	.0	.2	2.4	2.2	1.4	.1	.0	.0	.0	.0	.0	65	.5	5.8
-4	.0	.3	2.6	2.3	.2	.0	.0	.0	.0	.0	.0	56	.5	4.9
-5	.0	.2	1.6	1.8	.5	.0	.0	.0	.0	.0	.0	43	.0	4.1
-6	.0	.7	1.4	1.3	.2	.0	.0	.0	.0	.0	.0	36	.1	3.4
-7/-8	.0	1.1	1.5	.9	.1	.0	.0	.0	.0	.0	.0	37	.0	3.6
-9/-10	.1	.7	.6	.4	.1	.0	.0	.0	.0	.0	.0	19	.2	1.6
-11/-13	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	8	.1	.7
TOTAL	4	43	161	284	261	146	77	37	14	8	2	1037	8.1	91.9
PCT	.4	4.1	15.5	27.4	25.2	14.1	7.4	3.6	1.4	.8	.2	100.0		

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.0	2.8	.0	.0	.0	.0		3.9	.1	.6	.0	.0	.0	.0		.7
1-2	.0	1.0	1.2	.0	.0	.0		2.2	.0	.6	.7	.0	.0	.0		1.3
3-4	.0	.6	2.1	.6	.0	.0		3.3	.0	.0	1.2	.0	.0	.0		1.2
5-6	.0	1.2	1.6	1.0	.0	.0		3.9	.0	.6	.0	.0	.0	.0		.6
7	.0	.0	.4	.9	.0	.0		1.3	.0	.0	.7	.0	.0	.0		.7
8-9	.0	.0	1.0	.6	.0	.0		1.6	.0	.0	.1	.0	.0	.0		.1
10-11	.0	.0	.4	.0	.0	.0		.4	.0	.0	.1	1.2	.0	.0		1.3
12	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.1	.0	.0		.1
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.6	.0	.0	.0		.6	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.0	5.7	7.4	3.6	.0	.0		17.7	.1	1.8	3.0	1.3	.0	.0		6.3

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	.0	.0	.0	.0	.0		.6	.0	.7	.0	.0	.0	.0		.7
1-2	.0	1.5	.9	.0	.0	.0		2.4	.0	.4	.4	.0	.0	.0		.9
3-4	.0	1.2	3.1	.0	.0	.0		4.3	.0	.0	.7	.0	.0	.0		.7
5-6	.0	.6	1.2	.0	.0	.0		1.8	.0	.0	.4	.0	.0	.0		.4
7	.0	.0	1.2	.0	.0	.0		1.2	.0	.0	1.8	.6	.0	.0		2.4
8-9	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.1	.0	.0		.1
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.6	.0	.0	.0		.6
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.6	3.3	6.4	.4	.0	.0		10.7	.0	1.2	4.0	.7	.0	.0		6.0

PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER

AREA 0003 NE NEWFOUNDLAND COAST
49.2N 53.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.4	.0	.0	.0	1.5	.0	.0	.1	.0	.0	.0	.1
1-2	.0	1.5	3.1	.0	.0	.0	4.6	.0	1.5	1.9	.0	.0	.0	4.0
3-4	.0	1.2	3.9	.0	.0	.0	5.1	.0	1.2	1.5	.0	.0	.0	2.7
5-6	.0	1.2	4.2	.0	.0	.0	5.4	.0	.0	2.2	.1	.0	.0	2.4
7	.0	.0	.6	.4	.6	.0	1.6	.0	.0	1.8	.7	.0	.0	2.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.6	.6	.0	.0	1.2	.0	.0	.6	2.4	.0	.0	3.0
12	.0	.0	.0	.6	.0	.0	.6	.0	.0	.6	.6	.0	.0	1.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	12.8	1.6	.6	.0	19.9	.6	2.7	9.4	3.9	.0	.0	16.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	27-33	34-47	48+	PCT	TOTAL PCT
<1	.6	.6	.0	.0	.0	.0	1.2	.0	.7	.0	.0	.0	.0	.7	
1-2	.0	1.6	.0	.0	.0	.0	1.6	.0	.1	1.2	.0	.0	.0	1.3	
3-4	.0	.0	1.2	.0	.0	.0	1.2	.0	.6	.0	.0	.0	.0	.6	
5-6	.0	.0	.9	1.6	.0	.0	2.5	.0	.0	1.9	.7	.0	.0	2.7	
7	.0	.0	.0	.0	.6	.0	.6	.0	.0	1.2	.3	.0	.0	1.5	
8-9	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.6	.0	.6	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	1.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	1.2	
13-16	.0	.0	.4	.0	.6	.0	1.0	.0	.0	.7	.6	.6	.0	1.9	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	2.2	2.5	2.2	1.2	.0	8.8	.0	1.5	5.1	4.6	1.2	.0	12.4	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	6.5	.6	.0	.0	.0	10.7	
1-2	1.2	8.3	9.5	.0	.0	.0	19.0	
3-4	.0	4.8	13.7	.6	.0	.0	19.0	
5-6	.0	3.6	12.5	3.6	.0	.0	19.6	
7	.0	.0	7.7	3.0	1.2	.0	11.9	
8-9	.0	.0	1.8	1.8	.6	.0	4.2	
10-11	.0	.0	2.4	5.4	.0	.0	7.7	
12	.0	.0	.6	3.0	.0	.0	3.6	
13-16	.0	.0	1.2	.6	1.2	.0	3.0	
17-19	.0	.0	.6	.6	.0	.0	1.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.8	23.2	50.6	13.5	3.0	.0	100.0	168

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	8.2	13.7	9.3	4.4	.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	4
6-7	.0	1.1	3.3	4.1	9.3	4.1	2.7	1.1	.8	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	100	7
8-9	.0	.0	1.1	3.3	3.3	1.6	3.6	1.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	8
10-11	.0	.3	.0	.5	.5	.8	2.2	.5	.8	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	10
12-13	.0	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
>13	.0	.0	.0	.0	.0	.5	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
INDET	.8	2.7	4.1	.8	1.1	.5	.0	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	4
TOTAL	8	45	81	66	68	31	33	14	11	6	0	1	0	0	0	0	0	0	0	364	6
PCT	2.2	12.4	22.3	18.1	18.7	8.5	9.1	3.8	3.0	1.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1954-1970
(OVER-ALL) 1890-1970

OCTOBER

AREA 0003 NE NEWFOUNDLAND COAST
49.1N 53.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRYL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.3	6.3	3.3	.0	1.4	.0	.0	15.5	2.0	.8	4.7	.6	.0	.0	76.4
NE	10.9	1.8	4.1	.0	3.6	.0	.0	20.4	2.3	.0	9.0	.0	4.1	.0	64.3
E	19.0	8.6	6.5	.0	5.6	.0	.0	37.9	3.4	.0	11.6	1.7	3.0	.0	42.2
SE	20.5	2.0	5.3	.0	.0	.0	.0	27.8	.9	.0	8.7	.0	1.1	.9	60.6
S	12.8	2.1	.6	.0	.0	.0	.0	15.6	1.3	.0	11.9	.0	3.7	.0	67.6
SW	7.2	1.7	.6	.0	.0	.0	.0	9.5	.9	.0	3.6	.0	3.7	.0	82.2
W	5.1	1.4	1.4	.0	1.8	.0	.0	9.6	.8	.0	.6	.0	.8	.0	88.3
NW	5.5	3.1	2.3	.0	.4	.0	1.2	12.0	2.5	.0	9.2	.1	.0	.0	76.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.1	.0	9.1	.0	.0	.0	.0	18.2	.0	.0	36.4	.0	9.1	.0	36.4
TOT PCT	9.6	2.9	2.4	.0	1.0	.0	.2	15.8	1.6	.1	7.2	.2	2.0	.1	73.0
TOT OBS:	1029														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRYL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	14.0	3.3	4.1	.0	1.5	.0	.0	22.5	1.1	.0	6.3	.0	2.2	.0	67.9
06009	9.6	2.8	2.3	.0	1.4	.0	.5	16.5	1.8	.5	7.8	.0	.9	.0	72.5
12015	8.6	2.6	.7	.0	.7	.0	.0	12.3	1.0	.0	7.3	.7	2.0	.3	76.5
18021	6.1	2.9	3.3	.0	.4	.0	.4	12.7	2.5	.0	7.4	.0	2.9	.0	74.6
TOT PCT	9.7	2.9	2.5	.0	1.0	.0	.2	15.9	1.5	.1	7.1	.2	2.0	.1	72.9
TOT OBS:	1035														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	.3	3.0	5.6	2.9	.2	.1		12.0	16.8		11.2	14.5	14.5	14.5	9.8	13.6	11.3	19.0
NE	.4	1.6	1.8	1.4	.1	.0		5.3	15.7		4.8	4.8	6.1	.0	5.4	5.0	5.2	10.0
E	.3	1.8	2.3	1.0	.2	.0		5.6	15.1		6.7	8.1	4.7	6.5	5.9	.0	5.4	8.0
SE	.3	2.3	5.1	2.8	.4	.1		10.9	17.5		14.2	14.5	8.5	2.4	10.6	8.2	10.8	10.0
S	.3	3.5	7.6	3.4	.4	.0		15.2	16.8		16.2	14.5	14.0	18.5	14.6	13.2	16.3	12.0
SW	.7	4.3	9.8	5.1	.4	.2		20.4	17.0		18.9	16.1	21.0	20.2	23.0	26.8	18.3	14.0
W	.1	2.3	6.3	3.4	.9	.1		13.1	19.2		12.0	11.3	12.0	20.2	14.4	16.4	13.1	4.0
NW	.1	3.1	7.8	4.2	1.3	.*		16.5	18.9		13.2	16.1	18.1	17.7	16.2	15.0	18.7	23.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1							1.1	.0		2.8	.0	1.0	.0	.0	1.8	.9	.0
TOT OBS	37	236	499	261	42	5	1080		17.2		252	31	193	31	262	55	231	25
TOT PCT	3.4	21.9	46.2	24.2	3.9	.5		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	06	12	18	21
N	1.2	4.7	4.6	1.3	.2		12.0	16.8		11.6	14.5	10.5	12.0	
NE	.9	2.1	1.7	.6	.0		5.3	15.7		4.8	5.2	5.4	5.7	
E	.7	2.8	1.5	.5	.1		5.6	15.1		6.9	4.9	4.9	5.7	
SE	.9	4.4	4.3	1.2	.1		10.9	17.5		14.2	7.7	10.2	10.7	
S	1.7	6.5	5.5	1.3	.3		15.2	16.8		16.0	14.6	14.4	15.9	
SW	2.3	7.4	9.1	1.3	.3		20.4	17.0		18.6	20.9	23.7	17.9	
W	.8	4.9	4.5	2.7	.2		13.1	19.2		11.9	13.2	14.7	12.2	
NW	.8	7.0	5.2	3.2	.2		16.5	18.9		13.5	18.1	16.0	19.1	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	1.1						1.1	.0		2.5	.9	.3	.8	
TOT OBS	113	430	392	130	15	1080		17.2		283	224	317	256	
TOT PCT	10.5	39.8	36.3	12.0	1.4		100.0			100.0	100.0	100.0	100.0	

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49.1N 53.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000Z	2.5	2.1	26.9	44.5	20.8	2.8	.4	15.8	100.0	283
0400Z	.9	1.8	19.6	52.2	22.3	1.8	1.3	17.0	100.0	224
1201Z	.3	3.8	21.8	42.0	25.9	6.3	.0	18.0	100.0	317
1802Z	.8	1.2	18.4	48.0	27.3	3.9	.4	18.1	100.0	256
TOT	12	25	236	499	261	42	5	17.2		1080
PCT	1.1	2.3	21.9	46.2	24.2	3.9	.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & NBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	1.2	4.0	5.1		6.0
NE	.7	.1	.8	4.4		6.8
E	.3	.6	.7	4.0		6.9
SE	1.0	.5	1.0	7.9		6.9
S	2.3	1.1	3.6	7.9		6.1
SW	6.1	2.2	5.7	6.3		4.9
W	3.6	1.8	3.5	4.6		5.0
NW	2.8	1.6	5.4	6.6		5.7
VAR	.0	.0	.0	.0		.0
CALM	.3	.0	.1	.6		5.6
TOT OBS	174	84	229	439	926	5.8
TOT PCT	18.8	9.1	24.7	47.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.7	.0	.1	2.7	2.6	1.3	.3	.0	.3	.7	3.6	
.7	.0	.2	2.0	.9	.4	.3	.2	.2	.1	1.3	
.5	.7	.2	1.5	1.1	.4	.1	.1	.2	.0	1.4	
1.5	.3	.6	2.4	1.2	.8	.3	.0	.7	.2	2.5	
2.2	.0	.2	2.7	1.4	1.1	.2	.0	.9	.5	5.7	
.9	.1	.0	2.0	2.8	.9	.3	.5	1.1	.3	11.3	
.6	.0	.0	2.2	1.9	1.9	.2	.0	.0	.1	6.7	
1.5	.0	.0	3.2	3.2	2.1	.3	.1	.1	.1	5.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.2	.1	.0	.1	.1	.0	.0	.0	.1	.0	.4	
.8	7	10	173	141	82	18	8	34	12	360	926
8.7	.8	1.1	18.7	15.2	8.9	1.9	.9	3.7	1.3	38.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	3.6	4.9	5.0	5.0	5.0	5.0	5.0	5.0
= OR >5000	4.1	5.7	5.9	5.9	5.9	5.9	5.9	5.9
= OR >3500	5.5	7.8	7.9	7.9	7.9	7.9	7.9	7.9
= OR >2000	11.1	16.4	16.6	16.8	16.8	16.8	16.8	16.8
= OR >1000	19.6	29.9	31.2	31.6	31.9	32.1	32.1	32.1
= OR >600	29.9	45.1	48.8	49.8	50.4	50.7	50.8	50.8
= OR >300	30.4	46.0	49.7	50.8	51.4	51.7	51.8	51.8
= OR >150	30.4	46.2	49.9	51.0	51.6	52.1	52.5	52.6
= OR >0	30.5	47.1	52.4	54.9	56.2	58.8	60.8	61.1
TOTAL	281	434	483	506	518	542	561	563

TOTAL NUMBER OF OBS: 922

PCT FREQ NH <5/8: 38.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 DBSCD	TOTAL OBS
11.8	7.3	8.8	6.9	4.1	5.3	8.9	10.0	28.4	946

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	*	.2	.3	.1	.0	.1	.0	.0	.0	.8	
	NO PCP	.1	.2	.3	.5	1.2	.6	.0	.9	.0	.4	4.2	
	TOT %	.2	.3	.4	.8	1.2	.6	.1	.9	.0	.4	5.0	
1/2<1	PCP	.0	.1	.2	.2	.1	.0	.1	.3	.0	.0	1.0	
	NO PCP	.1	.1	.2	.2	.2	.0	.0	.1	.0	.0	1.0	
	TOT %	.1	.2	.4	.4	.3	.0	.1	.4	.0	.0	2.0	
1<2	PCP	.1	.2	.4	.6	.2	.1	.1	.3	.0	.0	2.0	
	NO PCP	.2	.1	.2	.1	.4	.1	.0	.2	.0	.0	1.3	
	TOT %	.4	.3	.6	.7	.6	.2	.1	.5	.0	.0	3.4	
2<5	PCP	.4	.4	.6	.6	.8	.3	.2	.3	.0	.1	3.7	
	NO PCP	.7	.0	.4	.6	.4	.3	.0	.2	.0	.0	2.1	
	TOT %	.6	.4	1.0	1.2	1.2	.6	.2	.5	.0	.1	5.8	
5<10	PCP	1.0	.3	.7	1.2	.9	1.1	.4	.8	.0	.1	6.5	
	NO PCP	3.1	1.3	.8	1.9	3.2	2.9	2.7	3.4	.0	.1	19.3	
	TOT %	4.0	1.7	1.5	3.0	4.1	4.0	3.0	4.2	.0	.2	25.8	
10+	PCP	.3	*	.1	.3	.3	.5	.3	.3	.0	.0	2.1	
	NO PCP	6.3	2.5	1.6	4.6	7.2	14.9	8.8	9.9	.0	.4	56.0	
	TOT %	6.6	2.5	1.7	4.9	7.5	15.4	9.1	10.2	.0	.4	58.1	
TOT OBS		1021											
TOT PCT		12.0	5.4	5.6	11.0	15.0	20.8	12.5	16.7	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.4	.6	
	4-10	.1	.2	.1	.2	.3	.0	.0	.2	.0	.0	1.0	
	11-21	.1	*	.2	.4	.9	.4	.0	.6	.0	.0	2.6	
	22+	.1	*	.0	.2	.1	.1	.1	.1	.0	.0	.8	
	TOT %	.2	.3	.4	.8	1.3	.5	.1	.9	.0	.4	4.9	
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	11-21	.1	.2	.1	.2	.1	.0	.0	.1	.0	.0	.9	
	22+	.0	.0	.2	.2	.3	.0	.1	.3	.0	.0	1.0	
	TOT %	.1	.2	.4	.4	.5	.0	.1	.4	.0	.0	2.1	
1<2	0-3	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	4-10	.1	*	.2	.2	.3	.0	.0	.0	.0	.0	.8	
	11-21	.2	.2	.1	.1	.2	.1	*	.3	.0	.0	1.3	
	22+	.1	.1	.3	.3	*	.1	.1	.1	.0	.0	1.1	
	TOT %	.4	.3	.5	.6	.6	.3	.1	.5	.0	.0	3.3	
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.2	
	4-10	.1	*	.2	*	.1	.2	.1	.3	.0	.0	1.0	
	11-21	.3	.3	.6	.3	.3	.2	.0	.1	.0	.0	2.1	
	22+	.2	.1	.2	.8	.6	.1	.2	.1	.0	.0	2.3	
	TOT %	.5	.4	1.0	1.1	1.1	.5	.2	.5	.0	.1	5.6	
5<10	0-3	.0	.2	.0	.0	.0	.1	.0	.0	.0	.2	.5	
	4-10	.8	.6	.4	.4	.7	.5	.4	.1	.0	.0	4.2	
	11-21	1.8	.5	.4	1.8	2.1	2.2	1.3	2.4	.0	.0	12.5	
	22+	1.3	.3	.5	.7	1.1	1.1	1.2	1.5	.0	.0	7.8	
	TOT %	3.9	1.6	1.4	2.9	4.0	3.9	2.9	4.0	.0	.2	24.9	
10+	0-3	.3	.2	.0	.3	.1	.6	.1	.1	.0	.4	2.0	
	4-10	2.1	.8	.9	1.4	2.0	3.6	1.9	2.5	.0	.0	13.0	
	11-21	3.2	.6	.9	2.2	3.5	6.5	4.8	4.4	.0	.0	28.2	
	22+	1.4	1.0	.1	1.0	1.7	4.5	2.8	3.5	.0	.0	16.0	
	TOT %	7.0	2.6	1.9	4.9	7.3	15.1	9.6	10.5	.0	.4	59.2	
TOT OBS		1057											
TOT PCT		12.2	5.3	5.7	10.8	14.8	20.3	13.1	16.8	.0	1.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	12.7	.4	1.7	16.2	14.0	6.1	1.7	.0	2.6	1.3	56.8	43.2	229
06009	10.4	.5	.0	18.4	16.9	4.5	2.5	1.0	4.5	1.0	59.7	40.3	201
12015	5.3	.8	1.5	19.2	11.7	13.6	2.3	1.9	4.5	1.1	61.9	38.1	265
18021	7.0	1.2	.8	19.8	18.2	9.9	1.7	.8	2.9	1.7	64.0	36.0	242
TOT	81	7	10	173	141	83	19	9	34	12	569	368	937
PCT	8.6	.7	1.1	18.5	15.0	8.9	2.0	1.0	3.6	1.3	60.7	39.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	4.3	2.1	4.4	6.4	28.2	54.3	280
06009	4.5	1.8	3.6	7.3	30.0	52.7	220
12015	4.8	2.3	1.9	3.9	23.9	63.2	310
18021	5.9	2.0	3.1	5.1	18.0	65.9	255
TOT	52	22	35	59	265	632	1065
PCT	4.9	2.1	3.3	5.5	24.9	59.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	13.2	15.9	33.5	29.8	42.7	227
06009	10.3	11.9	32.0	29.9	38.1	194
12015	4.6	8.4	29.1	33.3	37.5	261
18021	7.1	10.8	33.3	32.1	34.6	240
TOT	79	107	294	276	352	922
PCT	8.6	11.6	31.9	29.9	38.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.1	.0	.0	1	1.1
65/69	.0	.0	.0	.1	.2	.1	.2	.3	9	1.0
60/64	.0	.0	.2	.2	.3	.6	1.0	.3	24	2.7
55/59	.0	.0	.3	.7	.5	1.0	.8	1.7	44	5.0
50/54	.0	.1	.3	1.1	1.8	1.9	4.4	6.0	139	15.7
45/49	.0	.0	.2	.9	3.2	6.4	9.2	11.6	280	31.5
40/44	.0	.0	.2	1.7	3.4	8.2	7.8	8.3	263	29.6
35/39	.0	.0	.0	.0	1.1	3.7	3.9	3.9	113	12.7
30/34	.0	.0	.0	.1	.1	.1	.6	.8	15	1.7
TOTAL	0	1	12	43	94	197	248	293	888	100.0
PCT	.0	.1	1.4	4.8	10.6	22.2	27.9	33.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.1	.4	.0	.0	.0	.0
65/69	.0	.0	.0	.0	.4	.5	.1	.0	.0	.0
60/64	.0	.0	.0	.1	1.0	.8	.2	.5	.0	.1
55/59	.1	.8	.2	.5	1.3	2.2	.4	.2	.0	.0
50/54	.8	.2	.7	2.2	3.6	4.9	1.6	1.5	.0	.2
45/49	2.4	2.0	1.9	4.5	5.4	6.4	4.4	4.6	.0	.1
40/44	5.0	2.3	2.3	2.6	1.7	4.6	4.4	6.6	.0	.2
35/39	3.4	.8	.9	.8	.5	1.5	1.2	3.7	.0	.0
30/34	.4	.3	.0	.0	.2	.0	.5	.3	.0	.0
TOTAL	12.1	5.5	5.9	10.7	14.0	21.0	12.8	17.3	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	67	61	55	45	37	34	33	45.4	282
06009	66	60	54	44	36	33	32	44.1	225
12015	70	65	57	45	37	34	31	45.8	316
18021	70	67	60	46	39	36	30	46.9	258
TOT	70	64	57	45	37	34	30	45.6	1081

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)										
00003	.0	3.5	10.0	20.9	29.6	36.1	84	230		
06009	.0	2.7	7.5	17.1	32.6	40.1	85	187		
12015	.0	3.8	10.0	26.1	26.8	33.3	83	261		
18021	.0	15.3	14.4	22.8	23.7	23.7	77	215		
TOT	0	56	94	197	250	296	62	893		

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TABLE 17

AREA 0003 NE NEWFOUNDLAND COAST
49.1N 53.1WPCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	2	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.6	.3	.1	10	.1	1.0
11/13	.0	.0	.0	.0	.0	.0	.1	.5	.3	.0	.0	9	.0	1.0
9/10	.0	.0	.0	.0	.1	.1	.1	1.1	.0	.1	.0	14	.1	1.4
7/8	.0	.0	.0	.0	.5	1.1	1.5	.5	.2	.1	.0	37	.4	3.5
6	.0	.0	.0	.2	.8	1.0	.5	.1	.0	.0	.0	25	.2	2.4
5	.0	.0	.0	.0	.8	1.2	1.3	.1	.0	.0	.0	32	.3	3.1
4	.0	.0	.0	.6	1.1	2.1	1.1	.3	.0	.0	.0	49	.5	4.7
3	.0	.0	.3	1.4	2.3	1.9	.5	.1	.0	.0	.0	62	1.2	5.4
2	.0	.0	.4	1.5	2.4	2.9	.1	.3	.0	.0	.0	72	.8	6.8
1	.0	.0	.7	2.6	3.8	2.4	.0	.0	.0	.0	.0	91	.5	9.1
0	.0	.1	.8	1.7	4.2	1.8	.4	.0	.0	.0	.0	86	.6	8.5
-1	.0	.2	.7	1.7	2.9	.5	.2	.0	.0	.0	.0	59	1.0	5.3
-2	.0	.2	1.5	2.6	2.9	.3	.1	.0	.0	.0	.0	72	.7	6.9
-3	.0	.1	1.5	2.2	2.4	.1	.0	.0	.0	.0	.0	60	.6	5.7
-4	.0	.5	.6	2.8	1.3	.1	.0	.0	.0	.0	.0	30	.1	5.2
-5	.0	.3	1.5	2.6	1.1	.0	.0	.0	.0	.0	.0	52	.2	5.3
-6	.0	.5	1.6	1.9	.2	.0	.0	.0	.0	.0	.0	40	.2	4.0
-7/-8	.0	.8	2.1	2.8	.2	.1	.0	.0	.0	.0	.0	57	.0	6.0
-9/-10	.3	.7	2.5	.4	.3	.0	.0	.0	.0	.0	.0	41	.0	4.3
-11/-13	.0	.2	1.9	.5	.0	.0	.0	.0	.0	.0	.0	25	.0	2.6
TOTAL	3	36	154	242	259	147	56	29	11	7	1	945	7.3	87.2
PCT	.3	3.8	16.3	25.6	27.4	15.6	5.9	3.1	1.2	.7	.1	100.0	7.7	92.3

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.8	.0	.0	.0	.0	.8	.0	.9	.0	.0	.0	.0	.9
1-2	.0	.5	.5	.0	.0	.0	.9	.0	.9	.5	.0	.0	.0	1.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9
5-6	.0	.0	1.4	.3	.0	.0	1.7	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	2.6	.5	.0	.0	3.1	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	1.0	1.2	.0	.0	2.2	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.5	.3	.8	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	5.9	2.3	.5	.3	10.3	.0	1.8	2.3	.0	.0	.0	4.1

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.4	.5	.0	.0	.0	.0	1.8	.0	.9	.0	.0	.0	.0	.9
1-2	.0	.9	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	1.8
3-4	.0	.5	.0	.3	.0	.0	.8	.0	.5	2.5	.1	.0	.0	3.1
5-6	.0	.0	1.2	.5	.0	.0	1.6	.0	.0	2.0	1.4	.0	.0	3.3
7	.0	.0	.3	.0	.0	.0	.3	.0	.3	2.4	.5	.0	.0	3.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.5	.5	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	.9
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	2.3	1.5	.8	.0	.0	6.0	.0	2.8	8.9	3.3	.5	.0	13.4

PERIOD: (OVER-ALL) 1963-1970

OCTOBER

TABLE 18 (CONT)

AREA 0003 NE NEWFOUNDLAND COAST
49.1N 53.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.8	1.4	.8	.0	.0	.0	3.0	.1	.5	.6	.0	.0	.0	1.2	
1-2	.0	.9	.0	.0	.0	.0	.9	.0	.0	1.0	.0	.0	.0	1.0	
3-4	.0	.0	2.1	.0	.0	.0	2.1	.0	.9	3.1	.0	.0	.0	4.0	
5-6	.0	.9	1.6	.5	.0	.0	3.0	.0	.5	2.9	.0	.0	.0	5.6	
7	.0	.0	3.5	.8	.0	.0	4.3	.0	.0	.6	.2	.0	.0	.8	
8-9	.0	.0	2.6	.5	.0	.0	3.1	.0	.0	.9	.9	.0	.0	1.8	
10-11	.0	.0	.3	.5	.0	.0	.8	.0	.0	.1	.5	.0	.0	.6	
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	3.2	10.9	2.5	.0	.0	17.5	.1	1.8	9.2	4.0	.0	.0	15.2	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.8	.0	.0	.0	.0	.8	.0	.7	.9	.0	.0	.0	1.6	
1-2	.0	.0	.3	.0	.0	.0	.3	.0	.5	.0	.0	.0	.0	.5	
3-4	.0	1.4	1.5	.0	.0	.0	2.9	.0	.0	1.8	.0	.0	.0	1.8	
5-6	.0	.0	.9	.5	.0	.0	1.4	.0	.5	.0	.1	.0	.0	.6	
7	.0	.0	2.2	2.0	.0	.0	4.1	.0	.0	1.2	.2	.0	.0	1.4	
8-9	.0	.0	.8	.3	.0	.0	1.2	.0	.0	2.2	.8	.5	.0	3.5	
10-11	.0	.0	.3	.0	.5	.0	.8	.0	.5	.6	2.4	.0	.0	3.5	
12	.0	.0	.0	.9	.0	.0	.9	.0	.5	.0	.9	.0	.0	1.4	
13-16	.0	.0	.0	.5	.0	.0	.5	.0	.0	.1	.0	.9	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.2	6.1	4.1	.5	.0	12.9	.0	2.5	6.8	4.5	1.4	.1	15.3	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.5	6.5	2.3	.0	.0	.0	14.3	
1-2	.0	4.6	3.2	.0	.0	.0	7.8	
3-4	.0	3.2	12.0	.5	.0	.0	15.7	
5-6	.0	1.8	10.1	5.5	.0	.0	17.5	
7	.0	.5	12.9	4.1	.0	.0	17.5	
8-9	.0	.0	8.8	3.7	.5	.0	12.9	
10-11	.0	.9	1.4	4.1	.9	.0	7.4	
12	.0	.5	.5	2.8	.0	.0	3.7	
13-16	.0	.0	.5	.5	.9	.0	1.8	
17-19	.0	.0	.0	.0	.5	.5	.9	
20-22	.0	.0	.0	.0	.0	.0	.5	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.5	18.0	51.6	21.7	2.8	.5	100.0	217

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	4.1	10.4	7.5	1.8	1.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	4
6-7	.0	.3	4.4	7.3	6.7	3.9	3.9	1.6	2.8	1.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	126	8
8-9	.0	.0	.5	2.8	3.1	6.7	4.7	2.6	2.6	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	93	10
10-11	.0	.3	.0	.0	.5	1.6	.5	.5	.5	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	17	10
12-13	.0	.0	.5	.3	.3	.3	.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
>13	.0	.0	.0	.0	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	9
INDEX	1.6	1.0	2.8	1.0	.8	.5	1.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	4
TOTAL	7	22	72	73	51	57	46	19	26	7	1	3	2	0	0	0	0	0	0	386	7
PCT	1.8	5.7	18.7	18.9	13.2	14.8	11.9	4.9	6.7	1.8	.3	.8	.5	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1895-1970

AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	10.2	1.5	6.2	.0	4.0	.0	.0	19.4	1.2	.0	2.2	.0	.6	.0	76.6
NE	13.5	4.3	5.0	.0	4.3	.0	.0	25.5	5.7	.0	17.7	.0	1.4	.0	49.6
E	13.2	.0	9.9	.0	.0	.0	.0	23.1	.0	.0	3.3	.0	4.4	.0	69.2
SE	7.4	.0	2.8	.0	2.3	.0	2.3	12.5	2.3	.0	8.5	.0	.0	.0	76.7
S	7.6	.8	3.1	.0	.0	.0	.0	10.5	1.7	.0	9.6	.0	1.7	.0	76.3
SW	1.7	.2	.8	.0	1.9	.0	.0	4.5	2.1	.0	6.8	.8	1.1	.0	84.8
W	.5	.0	.0	.0	5.3	.0	.0	5.8	.5	.0	.9	.0	.4	.0	92.4
NW	4.8	.1	3.0	.0	4.9	.0	.6	11.4	1.2	.0	4.0	.0	.9	.0	82.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	11.1	.0	.0	.0	77.8
TOT PCT	5.1	.6	2.6	.0	3.3	.0	.3	10.8	1.7	.0	5.4	.1	1.0	.0	81.0
TOT OBS:	722														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	8.4	1.3	3.2	.0	4.5	.0	.6	16.9	1.3	.0	5.2	.0	1.9	.0	74.7
0600	3.2	.6	2.6	.0	3.2	.0	.0	11.0	1.9	.0	3.2	.0	.0	.0	83.9
1200	4.0	.4	3.6	.0	3.6	.0	.0	9.9	1.3	.0	5.4	.0	.4	.0	83.0
1800	4.1	.0	1.5	.0	2.1	.0	.5	7.2	2.1	.0	7.7	.5	1.5	.0	80.9
TOT PCT	5.2	.6	2.8	.0	3.3	.0	.3	10.9	1.7	.0	5.5	.1	1.0	.0	80.9
TOT OBS:	726														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	3.2	5.3	3.3	.2	.0		12.4	16.6		10.6	14.1	16.7	11.0	10.5	15.2	10.9	12.9
NE	.2	1.3	2.3	1.4	.2	.0		5.2	16.2		5.9	5.1	3.5	6.8	9.1	5.8	2.4	1.7
E	.0	1.0	1.8	.6	.0	.0		3.4	15.4		2.4	3.8	2.1	5.9	3.3	3.8	3.3	4.7
SE	.0	2.3	2.5	.6	.3	.0		5.8	14.4		9.4	2.6	6.8	5.9	5.4	2.5	5.9	3.9
S	.2	2.7	5.6	3.2	.5	.1		12.2	17.9		18.3	16.7	13.7	8.5	9.4	10.1	10.0	13.4
SW	.2	3.2	8.8	4.0	1.4	.2		17.8	19.2		18.3	21.8	17.9	7.2	19.0	14.6	25.9	16.8
W	.3	2.6	9.7	6.1	1.0	.3		19.0	19.8		12.2	20.5	25.2	26.7	24.8	17.7	13.8	14.7
NW	.3	2.4	10.1	9.4	.8	.0		22.9	20.3		21.1	19.4	13.0	26.3	21.7	28.3	27.2	30.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0		1.6	.0	.9	1.7	.7	2.0	.7	1.7
TOT OBS	19	146	349	223	34	5	776		16.3		127	39	106	59	143	99	145	58
TOT PCT	2.4	18.8	45.0	28.7	4.4	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12
N	1.4	5.3	4.6	1.2	.0		12.4	16.6	11.4	14.7	12.4	11.5
NE	.6	2.4	1.8	.5	.0		5.2	16.2	5.7	4.7	7.7	2.2
E	.4	1.4	1.5	.1	.0		3.4	15.4	2.7	3.5	3.5	3.7
SE	1.4	2.5	1.5	.4	.0		5.8	14.4	7.8	6.5	4.2	5.3
S	.4	5.9	4.2	1.8	.2		12.2	17.9	17.9	11.8	9.7	11.0
SW	.7	7.9	5.7	2.9	.7		17.8	19.2	19.3	14.1	14.9	23.3
W	.5	7.4	8.0	2.4	.7		19.0	19.8	14.2	25.8	21.9	14.0
NW	.9	6.4	11.5	4.0	.1		22.9	20.3	19.7	17.7	24.4	28.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	1.2	1.2	1.2	1.0
TOT OBS	37	304	301	101	13	776		18.3	166	165	242	203
TOT PCT	7.3	39.2	38.8	13.0	1.7		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1895-1970AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	1.2	3.6	20.5	41.6	27.1	6.0	.0	17.6	100.0	166	
06009	1.2	1.8	19.4	49.1	24.2	3.0	1.2	17.5	100.0	165	
12015	1.2	.4	17.8	45.5	29.8	3.0	.4	18.4	100.0	242	
18021	1.0	.0	18.2	43.8	32.5	3.4	1.0	19.4	100.0	203	
TOT	9	10	146	349	223	34	5	18.3		776	
PCT	1.2	1.3	18.8	45.0	28.7	4.4	.6	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	.2	1.9	8.4		6.6
NE	.2	.0	.8	5.3		7.6
E	.0	.2	.9	3.3		7.3
SE	1.1	.0	1.0	5.1		6.6
S	1.6	.2	3.2	7.3		6.5
SW	4.8	2.2	4.2	9.3		5.6
W	2.5	1.4	4.7	8.6		6.1
NW	.8	1.1	5.2	11.0		6.9
VAR	.0	.0	.0	.0		.0
CALM	.6	.7	.4	.4		3.8
TOT OBS	64	29	109	287	489	6.4
TOT PCT	13.1	5.9	22.3	58.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.6	.1	.0	1.6	4.6	1.9	.4	.1	.2	.0	2.7	
NE	.9	.1	.4	1.1	2.4	.6	.4	.1	.1	.0	.2	
E	.2	.0	.2	.8	.8	1.6	.4	.0	.0	.0	.5	
SE	.9	.0	.3	.9	2.4	.6	.3	.0	.0	.0	1.8	
S	1.3	.0	.2	.8	2.5	1.4	1.1	.0	.3	.6	4.1	
SW	1.3	.0	.1	1.9	3.6	2.1	.7	.2	.7	.4	9.6	
W	.0	.0	.5	1.5	4.2	4.4	.9	.2	.4	.0	5.5	
NW	.6	.7	.5	1.7	5.2	4.1	.7	.4	.2	.0	4.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.6	.7	.4	.4	.0	.0	.0	.0	.0	.0	.8	
TOT OBS	30	7	10	51	125	82	25	5	9	5	145	489
TOT PCT	6.1	.4	2.0	10.4	25.6	16.8	5.1	1.0	1.8	1.0	29.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >3	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.0	2.4	2.6	2.6	2.6	2.9	2.9	2.9
= OR >5000	1.8	3.5	3.7	3.7	3.7	3.9	3.9	3.9
= OR >3500	6.3	8.1	8.6	8.6	8.8	9.0	9.0	9.0
= OR >2000	16.5	24.4	25.3	25.5	25.7	25.9	25.9	25.9
= OR >1000	26.9	47.3	49.7	50.1	50.9	51.3	51.3	51.3
= OR >600	31.4	55.0	59.1	59.9	61.1	61.7	61.7	61.7
= OR >300	31.6	55.2	60.1	60.9	62.9	63.5	63.7	63.7
= OR >150	31.6	55.2	60.1	61.1	63.1	64.0	64.2	64.2
= OR >0	31.6	55.4	61.1	62.7	65.2	67.6	69.7	70.5
TOTAL	155	272	300	308	320	332	342	346

TOTAL NUMBER OF OBS: 491

PCT FREQ NH <5/8: 29.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.4	9.5	9.4	9.1	9.1	5.9	9.4	6.1	44.4	5.3	511

NOVEMBER

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1895-1970

AREA 0003 NE NEWFOUNDLAND COAST
46.7N 52.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.1	.0	.1	.3	.1	.0	.3	.0	.0	1.0	
	NO PCP	.1	.4	.1	.4	.8	.8	.0	.1	.0	.0	2.8	
	TOT %	.3	.5	.1	.5	1.1	.8	.0	.4	.0	.0	3.7	
1/2<1	PCP	.1	.0	.0	.2	.2	.0	.0	.1	.0	.0	.7	
	NO PCP	.0	.3	.0	.1	.5	.3	.1	.0	.0	.0	1.2	
	TOT %	.1	.3	.0	.3	.7	.3	.1	.1	.0	.0	1.9	
1<2	PCP	.2	.3	.0	.0	.0	.0	.0	.3	.0	.0	.8	
	NO PCP	.1	.2	.0	.0	.1	.2	.1	.3	.0	.1	1.1	
	TOT %	.3	.5	.0	.0	.1	.2	.1	.7	.0	.1	1.9	
2<5	PCP	.2	.3	.3	.2	.4	.2	.1	.1	.0	.0	1.9	
	NO PCP	.7	.2	.0	.3	.4	.6	.2	.7	.0	.1	3.2	
	TOT %	.9	.5	.3	.5	.8	.8	.3	.8	.0	.1	5.1	
5<10	PCP	1.1	.3	.4	.1	.4	.4	1.0	1.8	.0	.0	5.5	
	NO PCP	2.3	1.3	1.2	1.8	3.7	4.5	5.7	8.0	.0	.3	28.8	
	TOT %	3.4	1.6	1.6	2.0	4.1	5.0	6.7	9.8	.0	.3	32.3	
10+	PCP	.9	.2	.0	.1	.0	.1	.0	.0	.0	.0	.8	
	NO PCP	5.9	1.3	1.1	2.7	5.3	11.1	12.4	13.4	.0	.7	34.1	
	TOT %	6.7	1.5	1.1	2.8	5.3	11.4	12.4	13.4	.0	.7	34.9	
TOT OBS													721
TOT PCT		11.3	4.9	3.2	6.1	12.2	18.9	19.6	23.2	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.1	.3	.1	.1	.0	.1	.0	.0	.9	
	11-21	.2	.3	.0	.0	.4	.3	.0	.0	.0	.0	1.6	
	22+	.0	.0	.0	.1	.6	.1	.0	.3	.0	.0	1.1	
	TOT %	.3	.3	.1	.4	1.1	.8	.0	.4	.0	.0	3.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.3	
	11-21	.1	.1	.0	.3	.1	.1	.0	.1	.0	.0	.8	
	22+	.1	.1	.0	.2	.4	.1	.0	.0	.0	.0	.9	
	TOT %	.3	.3	.0	.3	.7	.3	.1	.1	.0	.0	2.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	
	11-21	.1	.3	.0	.0	.0	.0	.0	.1	.0	.0	.5	
	22+	.2	.3	.0	.0	.1	.2	.0	.4	.0	.0	1.2	
	TOT %	.3	.6	.0	.0	.1	.2	.1	.6	.0	.1	2.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.2	.1	.1	.3	.0	.1	.1	.2	.0	.0	1.1	
	11-21	.6	.4	.1	.0	.6	.3	.1	.5	.0	.0	2.7	
	22+	.1	.0	.1	.2	.3	.1	.1	.1	.0	.0	1.2	
	TOT %	.9	.5	.3	.5	.9	.7	.3	.8	.0	.1	5.1	
5<10	0-3	.1	.0	.0	.0	.2	.1	.2	.3	.0	.3	1.2	
	4-10	.7	.7	.3	.8	1.4	.7	.7	.9	.0	.0	6.4	
	11-21	1.1	.4	.7	.7	1.3	2.2	2.9	3.0	.0	.0	12.3	
	22+	1.3	.4	.4	.4	1.0	1.8	2.6	3.3	.0	.0	11.2	
	TOT %	3.2	1.6	1.6	1.9	3.9	4.8	6.4	7.5	.0	.3	31.1	
10+	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.7	.9	
	4-10	2.1	.4	.4	.9	1.3	2.3	1.8	.9	.0	.0	10.1	
	11-21	3.0	.7	1.0	1.8	3.0	5.8	3.9	6.3	.0	.0	27.5	
	22+	1.6	.7	.1	.1	1.4	3.0	4.8	6.0	.0	.0	17.7	
	TOT %	6.9	2.0	1.5	2.8	5.7	11.0	12.4	13.3	.0	.7	36.3	
TOT OBS													750
TOT PCT		11.9	5.4	3.5	6.0	12.3	17.7	19.3	22.7	.0	1.2	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1895-1970AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	100 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 AN/ HGT	TOTAL OBS
00003	5.8	.0	2.9	8.7	28.8	8.7	4.8	1.9	1.0	1.0	63.5	36.5	104
06009	5.9	.0	.8	12.7	21.2	16.1	5.1	.0	.0	.0	61.9	38.1	118
12015	5.7	.7	3.5	9.9	26.2	22.7	5.7	.0	1.4	.7	76.6	23.4	141
18021	8.1	.7	.7	9.6	24.4	17.0	4.4	2.2	4.4	2.2	74.1	25.9	135
TOT	32	2	10	51	125	83	25	5	9	5	347	151	498
PCT	6.4	.4	2.0	10.2	25.1	16.7	5.0	1.0	1.8	1.0	69.7	30.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	4.9	1.3	1.9	5.1	41.4	45.9	157
06009	2.4	1.8	1.2	7.3	27.4	59.8	164
12015	2.1	3.0	2.1	4.7	28.3	59.7	233
18021	6.0	1.5	2.5	4.0	29.0	57.0	200
TOT	28	15	15	39	234	423	754
PCT	3.7	2.0	2.0	5.2	31.0	56.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	5.9	8.8	20.6	44.1	35.3	102
06009	6.0	8.5	23.1	39.3	37.6	117
12015	5.1	12.3	22.5	55.1	22.5	139
18021	8.2	12.7	27.6	48.5	23.9	134
TOT	31	53	116	232	143	491
PCT	6.3	10.8	23.6	47.3	29.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
55/59	.0	.0	.0	.0	.0	.2	.2	.3	4	.7
50/54	.0	.0	.0	.0	.0	.0	.2	.7	5	.9
45/49	.0	.0	.0	.0	.3	.5	1.2	3.1	30	5.1
40/44	.0	.0	.0	.7	1.4	3.4	6.3	8.5	116	19.8
35/39	.0	.0	.0	.3	5.5	10.8	16.8	15.9	288	49.2
30/34	.0	.0	.0	.2	2.4	5.0	10.1	5.5	135	23.1
25/29	.0	.0	.0	.0	.0	.2	.5	.3	6	1.0
TOTAL	0	0	0	4	36	117	206	202	585	100.0
PCT	.0	.0	.0	.7	6.6	20.0	35.2	34.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
.0	.0	.0	.0	.6	.1	.0	.0	.0	.0
.0	.0	.1	.6	.1	.3	.2	.0	.0	.0
.3	.2	.4	1.0	1.8	1.1	.1	.2	.0	.2
2.1	1.8	.8	.8	3.2	3.6	3.5	3.7	.0	.3
7.2	3.0	2.0	2.7	4.9	6.2	7.3	15.4	.0	.5
3.3	.5	.3	.7	1.0	4.2	7.6	5.3	.0	.2
.0	.0	.0	.0	.0	.3	.6	.2	.0	.0
12.9	5.5	3.7	5.3	11.5	16.0	19.3	24.7	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	55	51	47	38	32	27	25	38.2	165
06009	65	59	46	36	31	27	27	37.4	166
12015	50	48	45	37	31	28	24	37.5	242
18021	58	52	46	37	32	26	25	37.9	204
TOT	65	50	46	37	31	27	24	37.8	777

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.8	6.3	14.3	38.4	39.3	85	112		
06009	.0	.0	6.3	15.6	39.1	39.1	85	128		
12015	.0	.0	15.5	22.2	28.9	33.5	83	194		
18021	.0	1.3	7.2	24.8	37.3	29.4	83	153		
TOT	0	4	56	117	206	204	84	587		

NOVEMBER

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1898-1970AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.6	.0	.0	.2	5	.2	.6
9/10	.0	.0	.0	.0	.5	.7	.3	.0	.0	6	.0	.9
7/8	.0	.0	.0	.0	.9	.3	.3	.2	.0	11	.3	1.3
6	.0	.0	.0	.0	.5	.3	.2	.0	.0	6	.2	.8
5	.0	.0	.0	.3	2.3	.9	.0	.2	.0	24	.9	2.8
4	.0	.0	.2	1.6	1.4	.6	.2	.0	.0	25	.2	3.8
3	.0	.0	.0	2.8	2.2	.5	.3	.0	.0	37	.2	5.6
2	.0	.0	1.3	3.9	2.0	.5	.3	.0	.0	51	.9	7.0
1	.0	.0	1.4	4.7	1.6	.9	.0	.0	.0	55	.5	8.1
0	.0	.2	2.5	3.3	2.3	.9	.0	.0	.0	56	.3	8.5
-1	.0	.0	1.1	2.5	.5	.2	.0	.0	.0	27	.3	3.9
-2	.0	.3	3.3	3.9	.6	.2	.2	.0	.0	34	.5	8.0
-3	.0	.3	3.4	3.6	.6	.0	.0	.0	.0	31	.2	7.8
-4	.0	.8	4.9	1.3	.5	.7	.0	.0	.0	48	.2	7.4
-5	.0	.3	4.7	2.7	.2	.0	.0	.0	.0	50	.2	7.7
-6	.0	4.2	4.5	.5	.2	.0	.0	.0	.0	60	.0	9.4
-7/-8	.0	2.7	3.0	.8	.0	.0	.0	.0	.0	41	.0	6.4
-9/-10	.3	1.1	1.4	.3	.0	.0	.0	.0	.0	20	.0	3.1
-11/-13	.2	.2	.8	.5	.0	.0	.0	.0	.0	10	.0	1.6
-14/-16	.3	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	5		207		104		11		1	639	32	607
PCT	.8	10.0	32.4	32.6	16.3	5.6	1.7	.3	.2	100.0	5.0	95.0

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.6	.7	.0	.0	.0	3.2	.0	.0	.9	.0	.0	.0	.0	.0	.9
3-4	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.7	.0	.7	.0	.0	.0	2.0
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	2.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	4.1	2.0	.0	.0	8.7	.7	.9	.7	.7	.7	.0	.0	.0	2.9

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.5	.0	.0	.0	.0	.5	.0	.9	.0	.0	.0	.0	.0	.0	.9
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.7	.2	.0	.0	.0	.0	.0	.9
3-4	.0	.0	.7	.0	.0	.0	.7	.0	.9	.7	.0	.0	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	1.4
7	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.9	.0	.0	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.7	.0	.0	.0	1.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	2.0	.0	.0	.0	2.6	.0	2.4	2.4	2.4	.7	.2	.0	.0	8.0

PERIOD: (OVER-ALL) 1963-1970

NOVEMBER

AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
1-2	.0	1.2	.5	.0	.0	.0	1.7	.0	3.6	1.4	.0	.0	.0	4.9
3-4	.0	.5	2.9	.0	.0	.0	3.4	.0	1.5	3.2	.7	.0	.0	5.4
5-6	.5	.0	1.0	.5	.0	.0	2.0	.2	.0	3.1	.2	.9	.0	4.3
7	.0	.0	.5	.7	.0	.0	1.2	.0	.0	.7	.7	.7	1.0	3.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7
10-11	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	.0	.0	1.4	.0	1.4
12	.0	.0	.7	.0	.0	.5	1.2	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	2.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	1.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.7	5.6	2.2	.0	.5	10.5	.2	5.8	9.0	4.3	3.7	1.0	24.0

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.7	1.4	.0	.0	.0	2.0	.0	1.4	.0	.0	.0	.0	1.4
3-4	.0	1.2	3.7	1.2	.0	.0	6.1	.0	.7	3.2	.2	.0	.0	4.1
5-6	.0	.0	1.2	2.0	1.2	.0	4.4	.7	.0	2.0	.7	.0	.0	3.4
7	.0	.0	.7	1.4	.7	1.0	3.7	.0	.0	1.4	.0	.0	.0	1.4
8-9	.0	.5	.7	1.9	.0	.0	3.1	.0	.9	1.4	1.5	.0	.0	3.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.7	1.4	.0	3.4
12	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.7	.7	.0	1.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.7
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	7.7	6.5	2.4	1.0	19.9	.7	2.9	9.4	5.1	2.7	.0	20.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.7	1.4	.7	.0	.0	.0	4.8	
1-2	.0	10.9	4.1	.0	.0	.0	15.0	
3-4	.0	4.8	15.6	2.0	.0	.0	22.4	
5-6	2.0	.0	10.2	4.8	2.0	.0	19.0	
7	.0	.0	6.1	2.7	1.4	2.0	12.2	
8-9	.0	2.0	2.0	4.1	.0	.0	8.2	
10-11	.0	.0	1.4	2.7	3.4	.0	7.5	
12	.0	.0	.7	2.7	1.4	.7	5.4	
13-16	.0	.0	.0	2.0	.0	.0	2.0	
17-19	.0	.0	.0	2.0	.7	.0	2.7	
20-22	.0	.0	.0	.0	.7	.0	.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.8	19.0	40.8	29.1	9.5	2.7	100.0	147

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	2.6	9.1	7.5	2.3	1.3	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	5
6-7	.0	.0	2.9	9.1	7.2	3.3	2.9	2.9	1.6	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	8
8-9	.0	.7	.3	5.9	2.6	3.3	3.3	.3	1.0	2.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	61	9
10-11	.0	.3	.3	1.0	1.6	.3	.3	1.6	2.3	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	30	11
12-13	.0	.0	.3	.0	.3	.3	.3	1.6	.0	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	14	12
>13	.0	.0	.0	.0	.3	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
INDET	1.3	1.0	1.3	2.6	.7	1.0	.7	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	5
TOTAL	4	14	44	80	46	30	25	20	20	18	6	0	0	0	0	0	0	0	0	307	7
PCT	1.3	4.6	14.3	26.1	15.0	9.8	8.1	6.5	6.5	5.9	2.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1947-1970
(OVER-ALL) 1878-1970

AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRYL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.0	3.9	.0	.0	16.1	.0	.0	22.0	1.5	.0	8.3	.0	.0	.0	68.3
NE	.0	1.4	5.7	.0	30.0	.0	.0	37.1	7.1	.0	5.7	.0	.0	.0	50.0
E	.0	7.5	20.0	.0	35.0	.0	.0	62.5	7.5	.0	5.0	.0	.0	.0	25.0
SE	8.3	.0	8.3	5.6	16.7	.0	.0	98.9	8.3	.0	16.7	.0	.0	.0	36.1
S	5.1	4.7	3.1	.0	3.9	.0	.0	16.9	5.5	.0	28.0	.0	1.6	.0	48.0
SW	5.1	.0	.7	.0	13.9	.0	1.4	19.7	.7	.0	3.7	.7	.0	.0	75.3
W	2.9	.0	.0	.0	14.7	.0	.0	17.5	3.4	1.1	1.1	.6	.0	.0	76.1
NW	.0	.0	.0	.0	32.2	.0	.0	92.2	1.7	.0	1.7	.0	.0	.0	64.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	100.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.3	1.6	2.2	.3	16.3	.0	.3	23.7	3.3	.3	8.4	.3	.3	.0	63.8
TOT OBS:	367														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRYL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	1.0	.0	4.1	.0	19.6	.0	.0	24.7	1.0	.0	9.3	.0	.0	.0	64.9
06009	4.3	2.1	2.1	.0	12.8	.0	.0	21.3	4.3	.0	6.4	.0	.0	.0	68.1
12015	4.8	2.9	1.9	1.0	14.4	.0	1.0	26.0	2.9	.0	7.7	1.0	1.0	.0	61.5
18021	2.5	1.2	.0	.0	19.8	.0	.0	22.2	4.9	1.2	9.9	.0	.0	.0	61.7
TOT PCT	3.2	1.6	2.1	.3	16.5	.0	.3	23.7	3.2	.3	8.2	.3	.3	.0	64.1
TOT OBS:	376														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	.2	6.0	4.3	1.1	.2		13.1	21.0		23.2	9.4	9.7	2.2	11.2	7.1	13.4	26.0
NE	.0	1.2	3.3	.5	.2	.0		5.3	15.5		5.0	4.7	6.9	6.5	2.0	8.3	5.2	5.2
E	.0	.7	1.1	.0	.6	.0		2.4	18.4		3.6	1.6	1.3	.0	5.9	2.4	.0	2.1
SE	.2	1.0	1.2	1.8	.5	.1		4.7	19.1		4.6	6.3	3.1	6.5	6.9	4.8	3.0	4.2
S	.0	2.7	8.0	6.0	.4	.2		17.4	18.8		17.5	9.4	23.1	21.7	20.1	6.5	20.5	6.3
SW	.2	3.0	9.0	6.3	1.5	.0		20.0	19.7		16.8	15.6	15.9	21.7	20.7	33.9	23.9	10.4
W	.0	3.7	9.7	8.3	2.2	.2		23.6	20.8		16.4	25.0	28.8	34.8	23.4	26.2	20.1	20.8
NW	.5	1.4	5.7	3.4	1.9	.2		12.7	21.6		12.9	28.1	10.0	6.5	9.9	8.3	12.3	25.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0		.0	.0	1.3	.0	.0	2.4	1.5	.0
TOT OBS	12	58	178	127	35	4	414		19.8		70	32	80	23	76	42	67	24
TOT PCT	2.9	14.0	44.0	30.7	8.5	1.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	1.3	2.1	6.4	3.0	.4		13.1	21.0	18.9	8.0	9.7	16.8	
NE	.7	2.3	2.0	.2	.0		5.3	15.5	4.9	6.8	4.2	5.2	
E	.6	.5	.7	.6	.0		2.4	18.4	2.9	1.0	4.7	.5	
SE	.4	1.9	1.3	1.1	.1		4.7	19.1	5.1	3.9	6.1	3.3	
S	1.1	7.2	6.0	2.9	.2		17.4	18.8	15.0	22.8	15.3	16.8	
SW	.7	6.3	9.6	2.9	.6		20.0	19.7	16.4	17.2	25.4	20.3	
W	.9	7.5	9.8	4.8	.6		23.6	20.8	19.1	30.1	24.4	20.3	
NW	.6	4.6	4.1	2.4	1.1		12.7	21.6	17.6	9.2	9.3	15.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.7						.7	.0	.0	1.0	.8	1.1	
TOT OBS	29	134	165	74	12	414		19.8	102	103	118	91	
TOT PCT	7.0	32.4	39.9	17.9	2.9		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1947-1970
(OVER-ALL) 1878-1970

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AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	.0	2.0	13.7	45.1	31.4	6.9	1.0	19.7	100.0	102
0600	1.0	1.0	11.7	42.7	30.1	13.6	.0	20.8	100.0	103
1215	.0	2.5	16.9	44.1	28.0	7.6	.0	18.8	100.0	118
1821	1.1	3.3	13.2	39.6	34.1	5.5	3.3	20.1	100.0	91
TOT	3	9	58	178	127	35	4	19.8		414
PCT	.7	2.2	14.0	43.0	30.7	8.5	1.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.5	.2	4.0	7.8		7.1
NE	.6	.1	.9	4.1		7.0
E	.0	.0	.0	1.3		8.0
SE	.0	.0	.8	3.5		7.5
S	1.8	.6	2.4	14.2		6.9
SW	2.8	2.8	4.8	8.7		5.8
W	3.7	2.6	7.8	9.4		5.8
NW	1.7	1.3	3.5	7.9		6.5
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.3		8.0
TOT OBS	35	24	77	102	318	6.4
TOT PCT	11.0	7.5	24.2	57.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3999	4999	6499	7999		ANY HGT	OBS
1.8	.0	.0	1.7	2.7	4.0	.0	.3	.6	.0	1.4	
.3	.0	.0	.3	1.5	1.9	.9	.0	.0	.0	.8	
.6	.0	.3	.0	.2	.2	.0	.0	.0	.0	.0	
1.6	.0	.1	.4	.5	1.5	.0	.0	.0	.0	.2	
5.3	.0	.5	1.3	3.4	3.2	.0	.4	.9	.6	3.4	
1.3	.0	.4	.3	3.0	4.0	1.1	.6	.4	.0	8.0	
.6	.0	.0	1.0	4.6	6.5	1.4	.0	.5	.2	8.6	
1.0	.3	.0	1.0	3.6	3.9	.0	.0	.2	.1	4.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41	1	4	19	62	80	11	4	6	3	85	318
12.9	.3	1.3	6.0	19.5	25.2	3.3	1.3	2.5	.9	26.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
= OR >5000	2.1	4.6	4.6	4.6	4.6	4.6	4.6	4.6
= OR >3500	4.6	8.0	8.0	8.0	8.0	8.0	8.0	8.0
= OR >2000	17.5	30.7	32.8	33.1	33.4	33.4	33.4	33.4
= OR >1000	24.2	44.5	49.7	51.2	52.5	52.5	52.8	52.8
= OR >600	25.8	47.5	53.4	55.5	57.1	57.4	58.6	58.6
= OR >300	25.8	48.2	54.0	56.7	58.3	58.6	59.8	59.8
= OR >150	25.8	48.5	54.3	57.1	58.6	58.9	60.1	60.1
= OR >0	25.8	49.1	55.8	59.8	62.9	67.2	73.3	73.3
TOTAL	84	160	182	195	205	219	239	239

TOTAL NUMBER OF OBS: 326

PCT FREQ NH <5/8: 26.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
7.8	2.9	7.5	6.4	2.9	5.2	10.4	8.4	36.4	12.1	346

PERIOD: (PRIMARY) 1947-1970
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48.7N 52.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.0	.3	.7	.4	.5	.5	.3	.0	.0	3.0	
	NO PCP	.7	.0	.0	.3	3.8	.7	.0	.1	.0	.0	5.7	
	TOT %	1.0	.0	.3	1.0	4.2	1.3	.5	.4	.0	.0	8.7	
1/2<1	PCP	1.1	.7	.1	.5	.5	.0	.0	.3	.0	.0	3.3	
	NO PCP	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
	TOT %	1.1	.7	.1	.5	.8	.0	.0	.3	.0	.0	3.5	
1<2	PCP	.0	.1	.7	.0	.4	1.7	.0	.5	.0	.3	3.3	
	NO PCP	.5	.0	.1	.5	.2	.0	.3	.1	.0	.0	1.6	
	TOT %	.5	.1	.9	.5	.6	1.2	.3	.6	.0	.3	4.9	
2<5	PCP	.7	.0	.0	.1	1.2	.3	.5	1.2	.0	.0	4.1	
	NO PCP	.3	.3	.0	.2	1.8	.1	.0	.0	.0	.0	2.7	
	TOT %	1.0	.3	.0	.3	3.1	.4	.5	1.2	.0	.0	6.8	
5<10	PCP	1.0	1.0	.5	.3	.1	1.8	2.8	1.6	.0	.0	9.2	
	NO PCP	5.2	.3	.1	1.6	4.0	8.4	10.4	3.3	.0	.0	33.4	
	TOT %	6.3	1.3	.7	1.9	4.1	10.3	13.2	5.0	.0	.0	42.7	
10+	PCP	.0	.0	.0	.3	.2	.1	.5	.0	.0	.0	1.1	
	NO PCP	4.2	2.4	.7	.3	4.2	6.8	8.8	4.8	.0	.0	32.3	
	TOT %	4.2	2.4	.7	.6	4.4	6.9	9.4	4.8	.0	.0	33.4	
TOT OBS													368
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.6	.0	.0	.0	.0	.0	.0	.1	.0	.0	.8	
	4-10	.0	.0	.0	.0	.5	.3	.0	.0	.0	.0	.8	
	11-21	.0	.0	.0	.4	1.7	.7	.3	.0	.0	.0	3.0	
	22+	.3	.0	.3	.6	1.7	.3	.3	.3	.0	.0	3.5	
	TOT %	.9	.0	.3	.9	3.9	1.2	.5	.4	.0	.0	8.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.3	.0	.3	.3	.0	.0	.0	.0	.0	.8	
	22+	1.0	.4	.1	.3	.3	.0	.0	.3	.0	.0	2.3	
	TOT %	1.0	.6	.1	.5	.8	.0	.0	.3	.0	.0	3.3	
1<2	0-3	.3	.0	.0	.3	.0	.0	.0	.0	.0	.3	.8	
	4-10	.0	.0	.1	.1	.3	.0	.0	.0	.0	.0	.5	
	11-21	.0	.1	.4	.0	.0	.3	.0	.3	.0	.0	1.3	
	22+	.2	.0	.3	.1	.3	.6	.3	.3	.0	.0	2.0	
	TOT %	.4	.1	.8	.4	.6	1.1	.3	.6	.0	.3	4.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.5	.0	.0	.0	1.4	.4	.3	.5	.0	.0	3.0	
	22+	.4	.0	.0	.3	1.4	.1	.2	.6	.0	.0	3.0	
	TOT %	.9	.3	.0	.3	2.8	.4	.4	1.1	.0	.0	6.3	
5<10	0-3	.4	.0	.0	.0	.0	.3	.0	.1	.0	.0	.8	
	4-10	.1	.0	.4	.6	.2	.3	2.0	.6	.0	.0	4.3	
	11-21	2.3	1.1	.3	.5	2.4	4.9	4.1	1.0	.0	.0	16.5	
	22+	3.1	.1	.0	.6	1.8	4.1	6.2	3.1	.0	.0	19.0	
	TOT %	5.9	1.2	.6	1.8	4.3	9.6	12.3	4.9	.0	.0	40.5	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	4-10	.1	1.0	.3	.3	1.3	1.9	1.7	.8	.0	.0	7.3	
	11-21	3.1	2.0	.4	.0	2.5	2.8	4.8	3.4	.0	.0	19.0	
	22+	.9	.3	.0	.6	1.4	2.6	4.0	1.3	.0	.0	11.0	
	TOT %	4.1	3.3	.7	.8	5.2	7.3	10.5	5.6	.0	.0	37.5	
TOT OBS													400
TOT PCT													100.0

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PERIOD: (PRIMARY) 1947-1970
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	18.4	.0	1.3	7.9	10.5	27.6	1.3	.0	3.9	1.3	72.4	27.6	76
06009	13.4	.0	.0	7.3	12.2	25.6	2.4	.0	.0	.0	61.0	39.0	82
12015	12.0	.0	1.1	6.5	27.2	21.7	4.3	3.3	3.3	.0	79.3	20.7	92
18021	8.3	1.2	2.4	1.2	23.8	25.0	4.8	1.2	2.4	2.4	72.6	27.4	84
TOT	43	1	4	19	63	83	11	4	8	3	239	95	334
PCT	12.9	.3	1.2	5.7	18.9	24.9	3.3	1.2	2.4	.9	71.6	28.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	12.0	3.0	2.0	7.0	45.0	31.0	100
06009	8.7	1.9	1.0	6.7	42.3	39.4	104
12015	7.0	4.3	8.7	5.2	37.4	37.4	115
18021	5.6	3.3	5.6	5.6	33.3	46.7	90
TOT	34	13	18	25	162	157	409
PCT	8.3	3.2	4.4	6.1	39.6	38.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	18.9	24.3	35.1	39.2	25.7	74
06009	14.3	16.9	27.3	27.7	35.1	77
12015	12.0	16.3	30.4	50.0	19.6	92
18021	8.4	14.5	24.1	49.4	26.5	83
TOT	43	58	95	145	86	326
PCT	13.2	17.8	29.1	44.5	26.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	.0	.0	.4	1	.4
50/54	.0	.0	.0	.0	.0	.0	.4	.0	1	.4
45/49	.0	.0	.0	.0	.0	.8	.8	.0	4	1.5
40/44	.0	.0	.0	.4	.4	2.3	4.6	.0	20	7.6
35/39	.0	.0	.0	.0	.0	3.4	7.3	14.1	65	24.8
30/34	.0	.0	.0	.0	4.2	11.1	11.5	13.4	105	40.1
25/29	.0	.0	.4	.0	1.5	9.3	6.1	5.0	48	18.3
20/24	.0	.0	.0	.4	2.7	2.7	.4	.0	16	6.1
15/19	.0	.0	.0	.0	.0	.4	.4	.0	2	.8
TOTAL	0	0	1	0	17	60	82	102	262	100.0
PCT	.0	.0	.4	.0	6.5	22.9	31.3	38.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0
50/54	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
45/49	.0	.0	.0	.1	1.2	.2	.0	.0	.0	.0
40/44	.0	.0	.0	1.4	3.8	.9	1.3	.2	.0	.0
35/39	3.3	1.4	.4	1.0	9.4	5.5	2.7	1.0	.0	.0
30/34	3.7	3.1	1.0	1.6	3.8	10.3	9.9	4.7	.0	.0
25/29	2.7	1.8	.7	.1	.3	2.2	7.3	3.2	.0	.0
20/24	.2	.0	.0	.0	.4	.6	3.5	1.4	.0	.0
15/19	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0
TOTAL	12.3	6.3	2.0	4.3	18.9	19.8	25.5	11.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	57	51	43	32	23	18	18	32.2	104
06009	57	45	43	32	23	19	19	33.0	104
12015	47	46	42	33	25	24	23	33.4	119
18021	45	44	40	33	24	19	19	32.6	93
TOT	57	47	43	33	24	19	18	32.8	420

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.5	7.7	18.5	26.9	35.4	85	65		
06009	.0	.0	7.8	17.2	34.4	40.6	86	84		
12015	.0	.0	4.2	27.8	25.0	43.1	86	72		
18021	.0	.0	7.4	27.9	29.4	35.3	85	68		
TOT	0	1	18	62	84	104	86	269		

PERIOD: (PRIMARY) 1947-1970
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48.7N 52.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	H FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.3	.6	3	.3	.6
9/10	.0	.0	.0	.0	.0	.0	.3	.3	2	.0	.6
7/8	.0	.0	.0	.0	.0	.9	.9	.9	9	.6	2.1
6	.0	.0	.0	.0	.0	.6	.0	.0	2	.0	.6
5	.0	.0	.0	.0	.6	2.4	.9	.0	13	.9	2.9
4	.0	.0	.0	.0	.9	1.8	.3	.3	11	.9	2.4
3	.0	.0	.0	.0	7.7	3.2	.6	.3	23	1.8	5.0
2	.0	.0	.0	.0	2.9	1.3	1.2	.3	20	1.2	4.7
1	.0	.0	.0	.0	4.7	1.3	.0	.3	22	.3	6.2
0	.0	.0	.0	1.2	4.5	1.3	.9	.0	22	.9	5.6
-1	.0	.0	.0	3.2	4.4	.9	.0	.0	29	.6	8.0
-2	.0	.0	.3	4.7	3.8	.0	.0	.0	30	.6	8.3
-3	.0	.0	.6	6.2	1.8	.9	.0	.0	32	.3	9.1
-4	.0	.0	3.5	3.8	1.2	.0	.0	.0	29	.3	8.3
-5	.0	.0	1.2	2.9	.6	.0	.0	.0	16	.0	4.7
-6	.0	.0	2.7	.9	.0	.0	.0	.0	14	.0	4.1
-7/-8	.0	.0	3.8	2.7	.6	.0	.0	.0	26	.0	7.7
-9/-10	.0	2.1	2.4	.9	.3	.0	.0	.0	19	.0	5.6
-11/-13	.0	1.3	.6	.3	.0	.0	.0	.0	8	.0	2.4
-14/-16	.9	.9	.6	.3	.0	.0	.0	.0	9	.0	2.7
TOTAL	3	19	53	92	95	51	16	10	339	29	310
PCT	.9	5.6	15.6	27.1	28.0	15.0	4.7	2.9	100.0	8.6	91.4

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.9	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	1.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	.0	.0	.0	4.4
5-6	.0	.0	.9	.9	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.9	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.9	.9	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.8	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.9	.7	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.9	2.2	.7	.0	3.8	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	.0	4.4	6.4	.7	.0	12.4	.0	1.8	4.4	.0	.0	.0	6.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	1.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.9	.0	.9	.9	.0	.0	2.4	.0	.2	3.5

PERIOD: (OVER-ALL) 1963-1970

DECEMBER

AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.7	.0	.0	.0	2.4	.0	1.8	.2	.0	.0	.0	2.0
1-2	.0	.0	.9	.0	.0	.0	.9	.0	.9	.9	.0	.0	.0	1.8
3-4	.0	3.3	3.3	1.3	.0	.0	8.2	.0	.0	.2	.9	.0	.0	1.1
5-6	.0	.0	3.8	1.5	.9	.0	6.2	.0	.0	2.7	.9	.9	.0	4.4
7	.0	.0	2.7	.9	.0	.0	3.5	.0	.2	.2	.0	.0	.0	.4
8-9	.0	.0	2.4	3.3	.0	.7	6.4	.0	.0	2.0	.2	.0	.0	2.2
10-11	.0	.0	.0	.9	.0	.0	.9	.0	.0	.9	1.8	.0	.0	2.7
12	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.9	1.8	.0	2.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.3	13.7	9.7	.9	.7	30.3	.0	2.9	7.1	4.6	2.7	.0	17.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.9	.9	.0	.0	.0	.0	1.8
3-4	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.7	.9	.9	.0	2.4	.0	.0	.9	.0	.0	.0	.0	.9
7	.0	.7	2.2	.0	.0	.0	2.9	.0	.0	.2	.9	.0	.0	.0	1.1
8-9	.0	.0	.9	1.5	.0	.9	3.3	.0	.0	.9	1.1	.0	.0	.0	2.0
10-11	.0	.0	.7	.0	.0	.0	.7	.0	.0	.2	.0	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.1	.0	.0	.0	2.0
13-16	.0	.0	.0	5.3	.0	.0	5.3	.0	.0	.0	2.2	.2	.0	.0	2.4
17-19	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	5.3	7.7	1.8	.9	17.3	.0	.9	4.0	5.3	1.1	.0	11.3	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.8	4.4	.9	.0	.0	.0	7.1	7.1
1-2	.9	2.7	3.5	.0	.0	.0	7.1	7.1
3-4	.0	4.4	8.0	2.7	.0	.0	15.0	15.0
5-6	.0	.0	8.8	4.4	2.7	.0	15.9	15.9
7	.0	.9	6.2	3.5	.0	.0	10.6	10.6
8-9	.0	.0	7.1	7.1	.0	1.8	15.9	15.9
10-11	.0	.0	1.8	4.4	.0	.0	6.2	6.2
12	.0	.0	1.8	2.7	.0	.0	4.4	4.4
13-16	.0	.0	.9	11.5	2.7	.0	15.0	15.0
17-19	.0	.0	.0	.0	.9	.0	.9	.9
20-22	.0	.0	.0	.0	1.8	.0	1.8	1.8
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.7	12.4	38.9	36.3	8.0	1.8	100.0	113

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	1.6	7.3	6.1	3.7	2.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	5
6-7	.0	.0	2.4	8.9	8.9	3.7	3.7	.4	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	7
8-9	.0	.4	.4	.8	3.3	6.9	3.3	2.0	3.7	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	59	10
10-11	.0	.0	.0	.8	2.0	1.6	2.0	1.2	2.4	.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	28	11
12-13	.0	.0	.0	.0	.0	2.8	.0	.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	10
>13	.0	.0	.0	.0	.0	.0	.4	.4	.8	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	6	16
INDET	1.2	.8	1.2	.8	.8	.8	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	5
TOTAL	4	7	28	43	46	45	28	11	26	1	6	1	0	0	0	0	0	0	0	246	8
PCT	1.6	2.8	11.4	17.5	18.7	18.3	11.4	4.3	10.6	.4	2.4	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1869-1971

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AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	6.0	2.0	3.2	.3	12.7	.4	*	24.0	1.6	.2	12.2	.4	.9	.1	60.7
NE	11.5	1.1	5.3	.8	10.3	.5	*	28.2	2.7	*	19.7	.4	2.0	.0	51.1
E	11.2	1.7	5.7	.4	11.0	.6	.0	29.7	1.5	.1	16.6	.7	1.8	.0	49.6
SE	10.3	1.8	3.6	.9	7.5	*	.2	23.8	2.7	.1	21.6	.3	1.6	.2	49.8
S	7.5	1.3	2.0	.3	4.1	.1	.0	14.5	1.6	.0	18.0	.7	1.9	*	63.3
SW	3.9	.6	1.0	.2	5.5	.2	.1	10.9	1.5	*	8.2	.5	2.5	.1	76.4
W	2.6	.9	1.1	.0	7.6	*	.2	12.2	1.2	.2	5.6	.2	1.6	.5	78.6
NW	2.7	.9	1.9	.3	11.8	.6	.1	17.5	2.2	*	10.8	.1	1.2	.1	68.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7	1.2	10.2	.0	3.6	.0	.0	17.7	.9	.0	18.2	.0	1.8	.0	61.4
TOT PCT	5.9	1.1	2.4	.3	8.6	.3	.1	18.0	1.7	.1	12.8	.4	1.7	.2	65.2
TOT OBS:	9340														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0000	6.2	1.2	2.7	.3	9.5	.3	.1	19.8	1.2	.1	11.3	.4	1.6	.1	65.5
0600	6.6	1.4	2.5	.5	8.5	.2	*	18.8	2.1	.2	11.8	.2	1.2	.0	65.8
1200	5.6	1.1	2.1	.4	7.8	.4	.2	16.9	1.5	.0	14.8	.5	1.8	.3	64.3
1800	5.6	1.0	2.2	.1	8.6	.2	.1	17.0	1.9	.1	12.8	.5	1.9	.2	65.5
TOT PCT	5.9	1.1	2.4	.3	8.5	.3	.1	18.0	1.6	.1	12.9	.4	1.6	.2	65.3
TOT OBS:	9503														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.6	3.5	5.8	3.2	.6	.1		13.7	16.6		14.8	13.9	14.3	13.7	12.5	12.5	13.1	15.7
NE	.4	2.2	2.8	1.2	.2	*		6.8	13.9		7.6	6.1	5.9	4.4	6.3	6.8	6.9	8.4
E	.4	2.1	2.4	.6	.2	.0		5.7	13.9		6.2	4.8	4.1	4.8	5.7	5.7	6.1	5.4
SE	.3	2.9	3.7	1.4	.3	*		8.8	15.1		11.4	7.4	6.9	6.7	8.5	8.0	8.6	8.3
S	.6	4.4	7.9	2.8	.4	.1		16.2	15.6		16.4	19.2	16.6	14.2	15.7	15.6	16.7	18.6
SW	.6	4.9	9.1	3.4	.5	*		18.5	15.7		16.4	20.0	20.2	20.8	19.6	20.7	18.2	15.2
W	.4	3.0	6.5	3.8	.9	.1		14.7	17.0		12.7	15.4	16.3	19.8	16.2	14.9	13.3	11.9
NW	.3	3.1	5.8	3.7	.9	.1		13.9	17.6		12.6	12.4	13.2	14.3	19.4	15.2	15.8	15.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0		1.8	.8	2.6	1.1	2.0	.7	1.4	.8
TOT OBS							9842		15.9		2072	458	1557	370	2155	738	1991	501
TOT PCT	5.5	26.1	44.0	20.1	3.9	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	1.8	5.4	4.7	1.6	.2		13.7	16.6	14.6	14.3	13.8
NE	1.2	3.3	1.6	.7	*		6.8	13.9	7.3	5.6	6.5
E	1.2	2.9	1.2	.4	*		5.7	13.9	5.9	4.4	5.8
SE	1.4	4.3	2.4	.7	.1		8.8	15.1	10.6	6.9	8.5
S	2.1	7.8	5.0	1.2	.1		16.2	15.6	16.9	16.0	15.5
SW	2.3	8.5	6.3	1.3	.2		18.5	15.7	17.0	20.1	20.0
W	1.4	5.6	5.2	2.2	.3		14.7	17.0	13.4	16.6	15.7
NW	1.4	5.3	4.9	2.0	.3		13.9	17.6	12.6	13.7	13.9
VAR	.0	.0	.0	.0	.0		.8	.0	.0	.0	.0
CALM	1.7						1.7	.0	1.7	2.3	1.7
TOT OBS					9842		15.9		2530	1927	2893
TOT PCT	14.4	43.0	31.3	10.1	1.2		100.0		100.0	100.0	100.0

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1869-1971

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	1.7	4.5	28.7	41.3	19.3	4.0	.3	15.5	100.0	2530
0600	2.3	3.4	25.6	44.0	19.3	4.0	.3	16.1	100.0	1927
1200	1.7	4.3	26.4	43.8	20.0	3.8	.1	15.7	100.0	2893
1800	1.2	3.1	23.5	46.6	21.6	3.4	.6	16.5	100.0	2492
TOT								15.9		9842
PCT	1.7	3.9	26.1	44.0	20.1	3.9	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	1.5	.7	2.3	9.4		6.6
NE	.8	.2	1.2	4.9		6.7
E	.6	.3	.8	3.8		6.8
SE	.9	.5	1.1	6.0		6.8
S	2.8	1.1	3.4	8.8		6.1
SW	5.1	1.9	4.5	6.9		5.1
W	3.8	1.8	4.1	5.2		5.0
NW	2.0	1.1	3.3	7.6		6.1
VAR	.0	.0	.0	.0		.0
CALM	.5	.2	.3	.8		5.3
TOT OBS					7940	6.0
TOT PCT	18.0	7.7	21.0	53.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
1.9	.4	.8	2.0	2.9	2.0	.5	.1	.3	.4	2.9	
.9	.3	.4	1.1	1.4	.8	.3	.1	.1	.4	1.6	
1.1	.1	.2	.6	1.1	.5	.2	.1	.2	.1	1.4	
1.8	.1	.4	1.2	1.4	.8	.3	.1	.2	.1	2.2	
2.7	.4	1.4	2.2	1.5	.4	.2	.6	.5	.6	6.2	
1.2	.1	.3	1.3	2.5	1.7	.4	.3	.8	.3	9.6	
.6	.1	.3	1.0	2.7	2.3	.5	.1	.3	.1	6.9	
1.4	.2	.5	1.5	3.3	2.1	.3	.1	.2	.1	4.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.4	.4	.0	.1	.2	.1	.1	.1	.1	.1	.8	
11.9	1.9	3.3	10.4	17.6	11.7	3.0	.9	2.8	1.3	35.7	7940
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			
	>10	>5	>2	>1
* OR >6500	2.8	3.9	4.1	4.1
* OR >5000	3.3	4.8	5.0	5.0
* OR >3500	4.9	7.4	7.9	8.0
* OR >2000	10.7	17.8	19.3	19.7
* OR >1000	17.5	31.5	35.4	37.1
* OR >600	20.9	38.3	44.0	47.3
* OR >300	21.1	39.5	46.1	48.9
* OR >150	21.1	39.7	46.5	49.7
* OR >0	21.2	40.1	48.0	52.3

TOTAL NUMBER OF OBS: 7977

PCT FREQ NM <5/8: 35.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
19.1	6.9	7.1	5.2	3.2	4.9	7.9	7.4	33.4	11.2	8221

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.5	.2	.2	.3	.3	.7	.2	.2	.0	.0	2.2	
	NO PCP	.9	.5	.6	1.1	2.1	.9	.3	.7	.0	.2	7.2	
	TOT %	1.4	.7	.8	1.4	2.3	1.7	.5	.9	.0	.2	9.3	
1/2<1	PCP	.4	.4	.2	.2	.2	.1	.2	.2	.0	.0	1.9	
	NO PCP	.2	.2	.1	.3	.4	.2	.1	.3	.0	*	1.8	
	TOT %	.7	.5	.3	.6	.6	.3	.2	.5	.0	*	3.7	
1<2	PCP	.7	.4	.3	.3	.2	.3	.1	.3	.0	*	2.6	
	NO PCP	.3	.1	.2	.2	.2	.2	.1	.2	.0	*	1.6	
	TOT %	1.0	.6	.5	.5	.4	.5	.2	.5	.0	.1	4.2	
2<5	PCP	.9	.4	.3	.4	.7	.4	.5	.7	.0	.1	4.3	
	NO PCP	.7	.3	.2	.5	.8	.7	.3	.4	.0	.1	4.1	
	TOT %	1.5	.7	.6	1.0	1.5	1.1	.8	1.1	.0	.2	8.4	
5<10	PCP	.8	.6	.4	.6	.6	.8	.9	.9	.0	.1	5.7	
	NO PCP	3.6	1.6	1.4	1.8	3.8	4.5	4.3	3.6	.0	.2	24.9	
	TOT %	4.4	2.2	1.8	2.4	4.5	5.3	5.2	4.5	.0	.3	30.6	
10+	PCP	.7	*	.1	.1	.2	.7	.2	.2	.0	*	1.3	
	NO PCP	4.6	2.1	1.7	2.8	6.7	9.9	7.6	6.2	.0	.8	42.4	
	TOT %	4.8	2.1	1.7	2.9	6.9	10.1	7.8	6.4	.0	.9	43.7	
TOT OBS		9317											
TOT PCT		13.8	6.8	5.7	8.8	16.2	18.4	14.8	13.9	.0	1.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	.1	.1	*	*	*	.1	.0	.2	.6	
	4-10	.5	.3	.3	.6	.6	.3	.2	.4	.0		3.1	
	11-21	.5	.3	.4	.6	1.2	.6	.1	.3	.0		3.9	
	22+	.3	.1	.1	.2	.5	.2	.1	.2	.0		1.7	
	TOT %	1.4	.7	.8	1.5	2.3	1.1	.5	.9	.0	.2	9.3	
1/2<1	0-3	*	*	*	*	*	*	.0	*	.0	*	.1	
	4-10	.1	.1	.1	.2	.1	.1	*	.1	.0		.8	
	11-21	.2	.3	.1	.2	.3	.1	.1	.2	.0		1.5	
	22+	.3	.1	.1	.1	.2	*	.1	.2	.0		1.2	
	TOT %	.6	.5	.3	.5	.6	.3	.2	.5	.0	*	3.6	
1<2	0-3	.1	*	*	.1	*	*	*	*	.0	.1	.3	
	4-10	.2	.1	.1	.1	.1	.1	*	.1	.0		.8	
	11-21	.3	.3	.2	.2	.2	.2	.1	.2	.0		1.7	
	22+	.4	.2	.1	.1	.1	.1	.1	.2	.0		1.4	
	TOT %	1.0	.6	.5	.5	.4	.5	.2	.5	.0	.1	4.2	
2<5	0-3	*	*	*	*	.1	*	*	.0	.0	.2	.3	
	4-10	.2	.2	.2	.2	.2	.3	.2	.2	.0		1.7	
	11-21	.7	.3	.2	.4	.8	.5	.3	.4	.0		2.8	
	22+	.5	.1	.2	.3	.4	.2	.3	.4	.0		2.5	
	TOT %	1.5	.7	.6	.9	1.5	1.0	.8	1.1	.0	.2	8.3	
5<10	0-3	.1	.2	.1	.1	.2	.2	.1	.1	.0	.3	1.4	
	4-10	.9	.7	.8	.8	1.3	1.2	.9	.9	.0		7.3	
	11-21	1.9	.8	.6	.9	1.9	2.6	2.0	1.8	.0		12.6	
	22+	1.4	.5	.2	.5	1.0	1.2	2.1	1.7	.0		8.7	
	TOT %	4.3	2.2	1.8	2.4	4.4	5.2	5.1	4.5	.0	.3	30.0	
10+	0-3	.3	.2	.2	.2	.3	.3	.2	.1	.0	.9	2.7	
	4-10	1.5	.9	.7	1.0	2.0	2.9	1.7	1.5	.0		12.2	
	11-21	2.2	.8	.8	1.4	3.6	5.0	3.9	3.0	.0		20.7	
	22+	1.0	.3	.1	.4	1.1	2.1	2.1	1.9	.0		9.0	
	TOT %	4.9	2.3	1.8	3.0	7.0	10.2	8.0	6.6	.0	.9	44.6	
TOT OBS		9556											
TOT PCT		13.7	6.9	5.7	8.8	16.2	18.4	14.8	13.9	.0	1.6	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET+NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	399	999	1999	3499	4999	6499	7999				
00003	12.5	1.1	2.8	10.0	15.2	10.8	3.2	1.1	2.9	1.4	61.0	39.0	2052
06009	15.1	.8	2.1	10.7	17.4	10.3	2.3	.6	2.9	.9	63.2	36.8	1682
12015	11.3	1.6	4.3	9.9	19.2	12.1	3.1	1.2	2.7	1.3	66.7	33.3	2219
18021	9.3	1.3	3.4	10.8	18.3	13.0	3.1	.7	3.1	1.4	64.5	35.5	2144
TOT													8097
PCT	11.8	1.3	3.3	10.3	17.5	11.7	3.0	.9	2.9	1.3	63.9	36.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL
(GMT)							OBS
00003	8.9	3.7	4.2	8.2	31.9	43.1	2478
06009	9.2	3.4	3.4	9.4	27.8	46.6	1912
12015	10.3	4.1	4.5	7.5	30.9	42.6	2851
18021	8.7	3.0	4.2	8.2	28.2	47.7	2483
TOT							9724
PCT	9.4	3.6	4.1	8.2	30.0	44.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET+NM >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NM <5/8 AND 5+	TOTAL
(GMT)	<500D	<1	<5	<AND5+		OBS
00003	12.8	18.4	33.5	29.0	37.5	2021
06009	15.4	19.9	35.2	29.5	35.3	1647
12015	11.2	19.7	33.5	34.7	31.9	2189
18021	9.3	16.5	33.9	32.6	33.6	2120
TOT						7977
PCT	11.9	18.6	34.0	31.5	34.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
80/84	.0	.0	*	*	.0	.0	.0	.0	.1	
75/79	.0	*	.1	.1	.1	*	*	*	.3	
70/74	.0	*	.1	.1	.2	.2	.1	.0	.7	
65/69	.0	*	.1	.3	.6	.6	.3	.2	2.1	
60/64	.0	*	.1	.3	.6	1.0	1.2	1.0	4.2	
55/59	.0	*	.1	.3	.7	1.5	2.7	2.5	7.8	
50/54	.0	*	*	.3	.6	1.4	3.2	4.6	10.3	
45/49	.0	.0	.1	.3	.9	1.4	3.2	4.5	10.4	
40/44	.0	*	.1	.2	.4	1.9	3.0	4.6	10.7	
35/39	.0	*	*	.2	1.1	3.2	5.3	8.3	18.2	
30/34	.0	.0	*	.2	1.0	3.1	5.7	8.9	18.9	
25/29	.0	.0	.1	.2	.6	2.4	2.6	2.2	8.0	
20/24	.0	.0	*	.2	.4	1.3	1.6	.8	4.3	
15/19	.0	.0	*	.1	.2	.7	.8	.2	2.0	
10/14	*	*	.1	.1	.3	.2	.4	.1	1.3	
5/9	.0	.0	.0	.1	.1	.2	.1	*	.4	
0/4	.0	.0	*	.0	.1	*	.1	.1	.3	
-1/-4	.0	.0	.0	.0	*	.0	.0	*	.1	
-5/-9	.0	.0	.0	.0	*	*	.0	*	.1	
TOTAL									7344	100.0
PCT	*	.3	.9	3.0	8.2	19.3	30.4	38.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	*	*	.0	.0	.0
75/79	*	*	.0	.0	.1	.1	*	.0	.0
70/74	*	*	*	*	.3	.2	*	.0	*
65/69	.1	.1	.1	.1	.6	.7	.2	.1	.1
60/64	.2	.1	.3	.4	1.1	1.3	.4	.3	.1
55/59	.5	.4	.6	1.0	1.8	1.9	.9	.6	.2
50/54	1.1	.7	.7	1.4	2.2	2.0	1.0	1.0	.2
45/49	1.4	.7	.6	1.2	2.2	1.8	.9	1.4	.3
40/44	1.3	.7	.6	1.1	2.2	1.9	1.3	1.6	.2
35/39	3.2	1.4	1.3	1.4	2.7	2.9	1.9	3.1	.3
30/34	3.8	2.2	1.1	1.2	1.9	2.8	2.8	3.1	.1
25/29	1.3	.6	.3	.4	1.2	2.1	1.5	.0	.1
20/24	.5	.2	.1	.1	.2	.6	1.5	1.1	.1
15/19	.2	*	*	.1	.5	.7	.4	.0	*
10/14	.1	*	.0	*	.1	.2	.7	.2	*
5/9	*	.0	.0	.0	.1	.3	*	.0	*
0/4	.0	.0	.0	.0	*	.1	*	.0	*
-1/-4	.0	.0	.0	.0	.1	.0	.0	.0	.0
-5/-9	.0	.0	.0	.0	*	*	*	.0	.0
TOTAL	13.7	7.1	5.6	8.5	15.8	18.3	15.1	14.4	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	77	55	50	39	30	26	-4	42.7	2560
06009	76	56	49	39	28	24	-8	42.2	1944
12015	78	55	50	40	30	25	-7	42.4	2921
18021	82	58	53	41	32	28	-7	44.0	2517
TOT	82	57	51	40	30	25	-8	42.9	9942

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	2.6	7.5	19.1	32.5	38.3	85	1927		
06009	.0	.8	5.5	16.7	32.6	44.3	87	1509		
12015	.0	3.3	8.5	19.9	28.4	39.9	84	2113		
18021	.1	9.1	10.5	20.8	29.1	30.5	80	1883		
TOT	1	333	647	1413	2262	2776	84	7432		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT FOG	W FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
23/29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	.0	.5
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.0	.0	104	.1	1.0
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.1	.2	.3	.4	.1	.0	.0	.0	197	.2	1.9
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.3	.3	.2	.4	.4	.3	.1	.0	.0	.0	237	.2	2.4
7/8	.0	.0	.0	.0	.0	.0	.0	.2	1.1	.7	.5	.4	.5	.7	.4	.2	.2	.0	.0	.0	.0	435	.5	4.5
6	.0	.0	.0	.0	.0	.0	.0	.5	.5	.3	.4	.6	.4	.6	.4	.3	.1	.0	.0	.0	.0	311	.7	2.9
5	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.1	.8	.5	.5	.7	.5	.4	.1	.0	.0	.0	.0	474	1.1	4.7
4	.0	.0	.0	.0	.0	.0	.0	.1	1.5	1.2	.5	.6	.6	.7	.5	.2	.1	.0	.0	.0	.0	486	1.4	4.6
3	.0	.0	.0	.0	.0	.0	.0	.4	2.8	1.5	.9	.6	.7	.8	.5	.1	.1	.0	.0	.0	.0	616	2.0	6.3
2	.0	.0	.0	.0	.0	.0	.0	1.0	2.6	1.4	.9	.7	.9	.8	.5	.1	.0	.0	.0	.0	.0	666	1.7	7.2
1	.0	.0	.0	.0	.0	.0	.0	1.7	2.2	1.6	.7	.6	1.0	.7	.3	.1	.0	.0	.0	.0	.0	683	1.3	7.6
0	.0	.0	.0	.0	.0	.0	.0	1.9	1.8	1.0	.6	.7	.9	.7	.2	.0	.0	.0	.0	.0	.0	616	1.2	6.8
-1	.0	.0	.0	.0	.0	.0	.2	1.6	1.3	.7	.4	.6	.6	.5	.2	.0	.0	.0	.0	.0	.0	493	1.2	5.0
-2	.0	.0	.0	.0	.0	.0	.0	.7	1.6	.9	.6	.4	.5	.4	.1	.0	.0	.0	.0	.0	.0	419	.6	5.0
-3	.0	.0	.0	.0	.0	.0	1.1	1.3	.6	.5	.3	.6	.3	.3	.1	.0	.0	.0	.0	.0	.0	379	.3	4.8
-4	.0	.0	.0	.0	.0	.0	1.3	1.0	.7	.2	.3	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	302	.2	4.1
-5	.0	.0	.0	.0	.0	.1	.9	.5	.6	.4	.3	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	270	.2	3.3
-6	.0	.0	.0	.0	.0	.0	.4	.8	.5	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	224	.1	3.0
-7/-8	.0	.0	.0	.0	.0	.0	.8	.9	.5	.4	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	260	.0	3.5
-9/-10	.0	.0	.0	.0	.3	1.0	.4	.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	178	.0	2.7
-11/-13	.0	.0	.0	.0	.7	.1	.0	.0	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	.0	2.0
-14/-16	.0	.0	.0	.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	.0	1.2
-17/-19	.0	.0	.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	.0	.7
-20/-22	.0	.0	.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	.4
-23/-25	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	.0	.2
-26/-30	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.0	.3
<-30	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
TOTAL																						7733		
PCT	.2	.3	.6	1.1	1.7	3.1	6.5	12.4	18.0	12.9	8.5	8.4	8.1	7.5	5.0	2.8	1.6	.8	.3	.1	.0	100.0	13.1	86.9

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.2	.0	.0	.0	1.3	<1	.2	.6	.1	.0	.0	.0	.9
1-2	.1	1.0	.7	.0	.0	.0	1.7	1-2	.1	.6	.4	.0	.0	.0	1.1
3-4	.0	.5	1.4	.8	.0	.0	2.7	3-4	.0	.2	1.3	.0	.0	.0	1.6
5-6	.0	.3	1.4	.5	.3	.0	2.5	5-6	.0	.1	.3	.3	.0	.0	.9
7	.0	.0	1.1	.4	.0	.0	1.6	7	.0	.0	.4	.1	.1	.0	.6
8-9	.0	.0	.6	.4	.0	.0	1.1	8-9	.0	.0	.3	.1	.1	.0	.4
10-11	.0	.0	.3	.5	.0	.0	.8	10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.1	.3	.0	.0	.4	12	.0	.0	.1	.1	.1	.0	.1
13-16	.0	.0	.2	.7	.4	.0	1.2	13-16	.0	.0	.1	.0	.1	.0	.2
17-19	.0	.0	.0	.2	.1	.0	.4	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.1	.1	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.1	.1	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.8	5.9	3.8	.9	.2	13.9	TOT PCT	.3	1.7	2.9	.8	.3	.0	6.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.1	.0	.0	.0	.6	<1	.1	1.1	.0	.0	.0	.0	1.2
1-2	.0	.5	.3	.0	.0	.0	.8	1-2	.2	.8	.7	.0	.0	.0	1.7
3-4	.0	.3	.8	.1	.0	.0	1.2	3-4	.0	.3	.9	.2	.0	.0	1.4
5-6	.0	.1	.6	.2	.0	.0	.9	5-6	.0	.3	.9	.5	.0	.0	1.7
7	.0	.1	.5	.1	.0	.0	.8	7	.0	.0	.9	.4	.0	.0	1.5
8-9	.0	.0	.1	.2	.1	.0	.4	8-9	.0	.0	.1	.4	.2	.0	.7
10-11	.0	.0	.0	.1	.1	.0	.2	10-11	.0	.0	.1	.5	.1	.0	.7
12	.0	.0	.0	.3	.0	.0	.4	12	.0	.0	.0	.1	.1	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.1	.0	.2	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.1	.0	.1	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.4	2.4	1.0	.3	.0	5.3	TOT PCT	.3	2.5	3.8	2.1	.6	.1	9.3

PERIOD: (OVER-ALL) 1963-1971

ANNUAL
TABLE 18 (CONT)AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.8W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	1.3	.4	.0	.0	.0		1.9	.3	1.1	.6	.0	.0	.0		1.9
1-2	*	1.6	1.0	.0	.0	.0		2.6	*	1.3	1.0	.0	.0	.0		2.4
3-4	*	1.2	2.8	.5	.0	.0		4.7	.0	1.2	2.6	.5	.0	.0		4.4
5-6	*	.3	2.2	.6	.1	.0		3.2	*	.2	2.2	.7	.2	.0		3.3
7	.0	.2	1.6	.4	.1	.0		2.4	.0	.1	1.2	.6	.1	.1		2.0
8-9	.0	.0	.8	1.0	.0	.1		1.8	.0	.1	.7	.7	*	.0		1.4
10-11	.0	.0	.2	.5	.0	.0		.7	.0	*	.2	.7	.2	.0		1.1
12	.0	.0	.1	.2	.0	*		.3	.0	*	.1	.2	*	.0		.3
13-16	.0	.0	*	.1	.1	.1		.3	.0	.0	.0	.3	.1	.0		.4
17-19	.0	.0	*	*	.0	.1		.1	.0	.0	.0	.1	.1	.0		.1
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	*	.0		*
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	*	.0		*
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	4.6	9.1	3.5	.2	.2		18.0	.4	4.0	8.5	3.9	.7	.1		17.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.5	.2	.0	.0	.0		.7	.0	1.2	.2	.0	.0	.0		1.4	
1-2	.0	.8	.7	.0	.0	.0		1.4	*	.8	.7	.0	.0	.0		1.6	
3-4	.0	.6	1.5	.3	.0	.0		2.4	.0	.2	1.1	.4	.0	.0		2.0	
5-6	.0	.0	1.2	.7	.3	.0		2.1	.1	.1	1.2	.8	*	.0		2.2	
7	.0	.1	1.3	.8	.2	.1		2.4	.0	.1	1.3	.9	*	.0		2.3	
8-9	.0	*	.6	.8	.1	.1		1.5	.0	.1	.6	.8	.1	.0		1.7	
10-11	.0	.0	.2	.4	.2	.0		.8	.0	*	.3	.8	.2	.0		1.3	
12	.0	.0	.1	.2	*	.0		.3	.0	*	.2	.5	.1	.0		.8	
13-16	.0	.0	.1	.6	.2	.0		.9	.0	.0	.1	.5	.3	.0		1.0	
17-19	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.3	*	*		.3	
20-22	.0	.0	.0	.1	.1	.0		.2	.0	.0	.0	.0	.1	.0		.1	
23-25	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	*	.0		*	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	*	.0		*	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.1	2.0	5.8	3.7	1.4	.2		13.2	.1	2.6	6.1	5.0	1.0	*		14.8	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	6.9	1.7	.0	.0	.0	11.8	
1-2	.5	7.5	5.4	.0	.0	.0	13.4	
3-4	.1	4.6	12.8	2.8	.0	.0	20.3	
5-6	.2	1.5	9.9	4.2	.9	.0	16.6	
7	*	.6	8.5	7.7	.5	.2	13.6	
8-9	.0	.2	3.7	4.4	.5	.1	8.9	
10-11	.0	.1	1.4	3.6	.8	.0	5.9	
12	.0	.1	.5	1.9	.4	.1	2.9	
13-16	.0	.0	.6	2.2	1.4	.1	4.3	
17-19	.0	.0	.1	.6	.4	.1	1.2	
20-22	.0	.0	.0	.1	.4	.1	.6	
23-25	.0	.0	.0	.0	.2	.1	.3	
26-32	.0	.0	.0	.0	*	.0	*	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.0	21.5	44.6	29.6	5.5	.8	100.0	2108

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.0	5.3	11.6	6.8	4.0	1.1	.5	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1250	4
6-7	.0	.7	4.4	6.4	7.2	3.9	3.0	1.6	1.8	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	1163	7
8-9	.0	.2	.9	2.8	3.2	2.8	2.7	1.5	1.7	.5	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	631	9
10-11	.0	.2	.2	.5	1.8	1.1	.9	.7	1.4	.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	274	10
12-13	.0	.0	.1	.2	.1	.5	.3	.2	.5	.3	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	83	11
>13	.0	*	.0	*	.1	.5	.1	.1	.5	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	54	11
INDEX	2.1	2.1	2.2	1.4	.9	.7	.7	.2	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	435	4
TOTAL																					3890	6
PCT	3.2	8.3	19.5	18.1	17.3	10.7	8.2	4.5	6.6	1.8	.9	.4	.2	*	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1869-1971

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.8W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	4	.0
65/66	.0	.0	.0	.0	.0	.0	.1	.7	.0	.0	.0	.0	9	.1
63/64	.0	.0	.0	.0	.0	.0	1.2	4.4	.4	.0	.0	.0	66	.8
61/62	.0	.0	.0	.0	.0	.0	1.8	5.0	.6	.0	.0	.0	82	1.0
59/60	.0	.0	.0	.0	.0	.0	3.1	8.3	3.0	.0	.0	.0	159	2.0
57/58	.0	.0	.0	.0	.0	.0	3.3	15.1	7.9	.3	.0	.0	296	3.6
55/56	.0	.0	.0	.0	.0	.0	.1	6.6	22.3	18.2	2.1	.0	344	6.7
53/54	.0	.0	.0	.0	.0	.0	.8	12.1	18.5	18.1	1.0	.0	352	6.8
51/52	.0	.0	.0	.0	.0	.0	2.2	14.1	13.4	23.1	5.0	.1	618	7.6
49/50	.0	.0	.0	.0	.0	.0	3.4	19.5	8.5	16.4	18.2	.3	686	8.4
47/48	.0	.0	.0	.0	.2	4.7	16.0	2.4	7.7	21.0	2.3	.0	539	6.6
45/46	.0	.0	.0	.0	2.0	6.6	11.2	.9	2.5	20.6	4.5	.5	454	5.6
43/44	.0	.0	.3	.7	4.2	11.7	6.7	.0	1.3	10.3	7.2	.8	349	4.3
41/42	.2	.7	.4	1.4	2.8	16.0	2.6	.1	.6	12.7	12.3	2.9	396	4.9
39/40	.7	.4	1.1	2.1	6.5	19.4	1.2	.0	.2	5.5	26.6	3.7	456	5.3
37/38	1.6	1.1	1.2	1.1	12.7	21.9	.5	.0	.1	2.6	23.5	15.1	495	6.1
35/36	12.4	4.3	2.6	6.8	23.6	9.4	.0	.0	.0	.5	17.4	24.5	520	6.4
33/34	19.9	11.8	14.3	22.8	26.6	3.2	.0	.0	.0	.0	5.1	30.5	579	7.1
31/32	47.6	58.2	28.6	32.6	15.5	.4	.0	.0	.0	.0	.6	19.4	840	10.3
29/30	20.1	22.4	45.4	32.4	5.4	.1	.0	.0	.0	.0	.1	2.6	473	5.8
27/28	2.4	1.1	5.9	.4	.4	.0	.0	.0	.0	.0	.0	.0	38	.5
<27	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
TOTAL	578	459	273	281	496	726	1042	1149	1080	998	693	383	8158	100.0
MEAN	32.2	31.7	31.1	32.5	35.4	40.7	50.1	55.2	52.4	46.0	39.2	34.8	40.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL QBS
JAN	1007	1008	1008	1005	1008	1009	1008	1009	1008	705
FEB	1008	1007	1008	1012	1009	1009	1006	1007	1008	585
MAR	1006	1005	1002	1001	1007	1006	1005	1007	1005	532
APR	1012	1012	1011	1012	1012	1011	1011	1011	1012	526
MAY	1015	1013	1013	1013	1014	1014	1013	1013	1014	570
JUN	1013	1012	1013	1013	1013	1013	1012	1014	1013	732
JUL	1014	1015	1013	1012	1014	1014	1014	1014	1014	1089
AUG	1013	1013	1013	1012	1013	1015	1013	1014	1013	1214
SEP	1015	1016	1015	1017	1014	1016	1015	1018	1015	1112
OCT	1012	1012	1012	1012	1012	1015	1011	1017	1012	1053
NOV	1016	1010	1015	1012	1014	1014	1013	1016	1014	744
DEC	1015	1014	1016	1017	1015	1009	1012	1013	1014	376
ANN	1012	1012	1012	1012	1012	1012	1011	1013	1012	9238
MS	1936	391	1928	361	2033	599	1939	431		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	967	975	985	999	1009	1017	1028	1036	1041
FEB	961	978	985	1000	1009	1017	1027	1041	1045
MAR	965	967	976	995	1006	1017	1029	1034	1042
APR	981	983	993	1004	1012	1019	1026	1033	1037
MAY	990	993	1000	1008	1014	1019	1028	1033	1035
JUN	992	996	1000	1008	1013	1018	1023	1028	1035
JUL	987	998	1002	1010	1014	1018	1024	1028	1032
AUG	989	996	1002	1009	1014	1018	1024	1028	1032
SEP	991	995	1001	1010	1016	1021	1027	1030	1033
OCT	977	983	992	1000	1013	1019	1026	1031	1035
NOV	964	980	991	1008	1014	1023	1031	1035	1038
DEC	964	983	994	1006	1014	1022	1032	1036	1038

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WFA
N	4.3	2.3	3.1	.0	14.2	.0	.0	22.1	3.8	.0	8.7	.4	.0	.4	64.5
NE	4.4	3.4	1.6	1.0	23.6	.2	.0	31.5	8.6	.0	12.0	.0	.8	.0	47.1
E	7.8	1.8	.7	.7	19.5	.7	.0	26.8	4.1	.0	11.0	1.1	.0	.0	57.0
SE	13.5	1.8	5.9	.2	13.2	.0	.9	33.3	2.1	.0	12.1	1.6	.2	.9	49.8
S	15.5	3.3	4.2	.3	8.2	.0	.0	30.6	2.7	.0	14.6	2.1	.9	.0	49.1
SW	4.6	1.8	2.8	.0	13.2	.4	.4	21.8	4.5	.0	8.7	.5	.6	.0	63.8
W	1.6	.6	.6	.2	14.6	.0	.4	17.5	4.1	.0	4.0	.0	.2	.0	74.1
NW	1.2	.5	.3	.3	15.3	.0	.3	16.8	5.3	.0	2.5	.0	.3	.3	74.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	7.1	7.1	.0	.0	.0	.0	14.3	7.1	.0	21.4	.0	.0	.0	57.1
TOT PCT	5.2	1.7	2.1	.3	14.4	.1	.3	22.6	4.4	.0	7.9	.5	.4	.2	64.0
TOT OBS:	1835														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WFA
00003	5.0	2.4	2.8	.4	15.0	.2	.0	24.3	3.9	.0	5.2	.9	.9	.0	64.9
06009	5.9	1.2	2.7	.0	14.8	.2	.2	22.5	5.1	.0	7.2	.4	.2	.2	64.3
12015	5.6	1.5	1.2	.4	11.6	.0	.4	20.1	3.7	.0	9.5	.2	.2	.2	66.0
18021	4.0	1.9	1.6	.2	16.2	.0	.5	23.3	4.5	.0	10.1	.7	.2	.2	60.9
TOT PCT TOT OBS:	5.2 1856	1.7	2.1	.3	14.3	.1	.3	22.5	4.3	.0	8.0	.5	.4	.2	64.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)								HOUR (GMT)								
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FRFQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	2.0	4.3	4.3	.8	.1	11.6	19.9	10.8	11.8	11.8	15.7	11.7	11.3	10.1	14.1	14.1
NE	.1	1.3	2.5	2.1	.6	.1	6.7	19.8	9.9	6.2	6.2	5.2	5.9	4.8	5.5	11.2	11.2
E	.2	1.3	2.6	1.3	.3	.0	5.8	16.9	5.3	7.2	4.9	6.4	5.3	5.4	7.5	5.6	5.6
SE	.1	1.2	2.7	1.1	.8	.2	6.1	19.7	6.7	7.8	5.7	6.4	5.9	5.9	5.6	6.5	6.5
S	.3	2.9	4.3	2.9	.9	.1	11.4	18.3	10.7	12.6	11.6	10.7	11.9	14.1	10.5	9.4	9.4
SW	.1	2.8	7.7	4.2	.7	.1	15.6	18.5	15.4	16.2	16.8	12.8	13.6	12.7	18.1	17.1	17.1
W	.3	3.6	8.6	9.0	2.8	.3	24.7	21.9	25.1	23.0	23.9	24.4	25.5	25.8	24.9	22.4	22.4
NW	.1	3.1	6.4	5.5	1.8	.4	17.3	21.0	15.5	15.2	17.8	17.6	18.8	19.9	17.5	13.8	13.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7						.7	.0	.5	.0	1.2	.8	1.4	.0	.2	.0	.0
TOT OBS	47	401	860	666	189	29	2192	19.9	404	153	422	121	442	161	404	85	85
TOT PCT	2.1	18.3	39.2	30.4	8.6	1.3	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00	06	12	18
									03	09	15	21
N	.9	3.7	4.3	2.6	.1	11.6	19.9	11.1	12.7	11.6	10.8	
NE	.5	2.2	2.6	1.2	.2	6.7	19.8	8.9	5.9	5.6	6.5	
E	.8	2.4	2.0	.6	.1	5.8	16.9	5.8	5.2	5.3	7.2	
SE	.6	2.4	1.9	.9	.4	6.1	19.7	7.0	5.9	5.9	5.7	
S	1.3	4.4	3.4	2.0	.4	11.4	18.3	11.2	11.4	12.5	10.3	
SW	1.0	6.2	5.5	2.6	.3	15.6	18.5	15.6	15.9	13.4	17.9	
W	1.1	7.0	9.0	6.4	1.1	24.7	21.9	24.6	24.0	25.6	24.4	
NW	1.2	5.4	6.0	3.9	.8	17.3	21.0	15.4	17.8	19.1	16.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7					.7	.0	.4	1.1	1.0	.2	
TOT OBS	177	741	760	442	72	2192	19.9	557	543	603	489	
TOT PCT	8.1	33.8	34.7	20.2	3.3	100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.4	1.1	17.4	43.3	29.3	7.4	1.3	19.4	100.0	557
06009	1.1	.9	18.4	42.0	29.3	7.7	.6	19.4	100.0	543
12015	1.0	2.2	18.9	34.2	30.8	11.1	1.8	20.5	100.0	603
18021	.2	1.6	18.4	37.8	32.3	8.0	1.6	20.1	100.0	489
TOT	15	32	401	860	666	189	29	19.9		2192
PCT	.7	1.5	18.3	39.2	30.4	8.6	1.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 8	TOTAL CLOUD	MEAN COVER
	N	1.3	.7	1.9	9.4	6.8
	NE	.7	.0	1.0	4.8	7.0
	E	.5	.3	1.0	4.5	7.0
	SE	.2	.1	.8	4.8	7.4
	S	1.0	.2	2.1	8.8	7.0
	SW	1.8	1.2	3.7	8.8	6.3
	W	3.6	3.2	6.3	10.5	5.8
	NH	1.9	1.0	5.9	7.2	6.2
	VAR	.0	.0	.0	.0	4.4
	CALM	.3	.0	.1	.3	6.5
TOT OBS	167	100	338	874	1479	
TOT PCT	11.3	6.8	22.9	59.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3999	4999	6499	7999		ANY HGT	OBS
1.0	.1	.1	1.6	4.0	3.0	.4	.3	.1	.1	2.6	
.9	.1	.2	1.0	1.6	1.1	.2	.0	.1	.1	1.1	
1.0	.0	.3	.8	1.0	1.5	.3	.1	.0	.1	1.1	
1.1	.0	.3	.4	1.4	1.1	.1	.3	.1	.3	.8	
1.9	.1	.6	1.5	3.1	2.2	.5	.1	.1	.1	2.0	
1.7	.1	.1	1.4	4.2	3.0	.7	.1	.1	.1	4.1	
.5	.1	.6	2.8	5.1	5.1	.4	.2	.3	.3	8.4	
.7	.0	.3	1.4	4.9	3.7	.4	.3	.1	.2	4.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.2	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	
134	7	35	161	377	308	46	19	13	17	362	1479
9.1	.5	2.4	10.9	25.5	20.8	3.1	1.3	.9	1.1	24.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >5000	1.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3
= OR >3500	3.3	6.1	6.3	6.3	6.3	6.3	6.3	6.3
= OR >2000	12.3	25.0	26.6	26.9	27.0	27.1	27.1	27.1
= OR >1000	23.0	45.8	50.1	51.7	52.5	52.6	52.6	52.6
= OR >600	26.5	53.3	59.8	62.2	63.2	63.4	63.5	63.5
= OR >300	26.7	54.4	61.6	64.4	65.4	65.8	65.9	65.9
= OR >150	26.9	54.7	61.8	64.8	65.9	66.3	66.4	66.4
= OR >0	26.9	55.1	62.8	67.1	70.2	71.9	75.3	75.3
TOTAL	395	808	921	984	1030	1055	1104	1105

TOTAL NUMBER OF OBS: 1467

PCT FREQ NH <5/8: 24.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.5	3.4	6.7	4.1	3.7	5.0	9.3	7.8	45.4	8.1	1587

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.*	.3	.2	.2	.5	.4	.3	.2	.0	.0	1.9	
	NO PCP	.3	.6	.3	.5	1.1	.7	.2	.*	.0	.0	3.7	
	TOT %	.3	.8	.5	.7	1.5	1.0	.4	.2	.0	.0	5.5	
1/2<1	PCP	.7	.3	.3	.2	.3	.7	.2	.4	.0	.0	2.0	
	NO PCP	.3	.*	.1	.1	.2	.7	.3	.1	.0	.1	1.3	
	TOT %	.4	.3	.4	.2	.5	.9	.5	.5	.0	.1	3.3	
1<2	PCP	.1	.7	.3	.4	.4	.4	.6	.3	.0	.1	3.1	
	NO PCP	.4	.3	.*	.2	.3	.3	.*	.1	.0	.0	1.5	
	TOT %	.5	1.0	.3	.5	.7	.6	.6	.4	.0	.1	4.7	
2<5	PCP	.6	.7	.5	.6	.9	.8	.9	.3	.0	.0	4.8	
	NO PCP	.6	.4	.3	.3	.4	.5	.8	.4	.0	.1	3.8	
	TOT %	1.2	.6	.8	.9	1.4	1.3	1.8	.7	.0	.1	8.5	
5<10	PCP	1.2	.6	.3	.8	1.3	1.4	2.2	1.2	.0	.1	9.1	
	NO PCP	3.2	1.6	1.9	1.6	2.7	3.9	7.9	5.2	.0	.0	27.9	
	TOT %	4.3	2.2	2.2	2.4	4.0	5.3	10.1	6.4	.0	.1	37.0	
10+	PCP	.4	.1	.1	.0	.2	.3	.4	.6	.0	.0	2.0	
	NO PCP	4.7	1.6	1.7	1.3	3.6	6.5	11.0	8.0	.0	.5	38.9	
	TOT %	5.0	1.7	1.8	1.3	3.9	6.8	11.4	8.5	.0	.5	40.9	
TOT OBS		11.8	6.7	6.0	6.1	11.9	15.5	24.8	16.7	.0	.7	100.0	1825
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.0	.*	.0	.0	.0	.1	
	4-10	.1	.1	.1	.1	.4	.1	.*	.*	.0	.0	1.0	
	11-21	.1	.2	.3	.3	.7	.5	.2	.*	.0	.0	2.4	
	22+	.1	.4	.1	.2	.4	.4	.1	.1	.0	.0	1.7	
	TOT %	.3	.8	.5	.6	1.6	1.0	.4	.2	.0	.0	5.3	
1/2<1	0-3	.0	.0	.*	.0	.0	.0	.0	.0	.0	.*	.1	
	4-10	.1	.*	.1	.*	.1	.1	.*	.1	.0	.0	.6	
	11-21	.0	.1	.1	.*	.1	.2	.2	.1	.0	.0	.9	
	22+	.3	.1	.1	.2	.2	.3	.2	.2	.0	.0	1.7	
	TOT %	.4	.2	.4	.2	.5	.6	.5	.5	.0	.*	3.3	
1<2	0-3	.0	.0	.*	.0	.0	.0	.0	.0	.0	.*	.1	
	4-10	.*	.1	.0	.1	.2	.1	.1	.*	.0	.0	.6	
	11-21	.3	.3	.2	.2	.2	.2	.2	.1	.0	.0	1.8	
	22+	.1	.6	.1	.3	.2	.3	.3	.2	.0	.0	2.2	
	TOT %	.5	.9	.4	.6	.7	.6	.6	.5	.0	.*	4.7	
2<5	0-3	.*	.*	.0	.0	.0	.0	.0	.0	.0	.*	.1	
	4-10	.*	.*	.1	.1	.3	.1	.2	.1	.0	.0	1.0	
	11-21	.3	.3	.2	.3	.2	.5	.4	.1	.0	.0	2.3	
	22+	.7	.3	.4	.4	.9	.6	1.1	.5	.0	.0	4.9	
	TOT %	1.1	.6	.7	.8	1.4	1.3	1.7	.7	.0	.*	8.4	
5<10	0-3	.0	.0	.*	.1	.*	.*	.1	.*	.0	.*	.3	
	4-10	.6	.4	.6	.5	.8	.7	1.0	.7	.0	.0	5.4	
	11-21	1.3	.6	.8	1.0	.9	2.7	3.0	2.3	.0	.0	12.7	
	22+	2.0	1.1	.6	.8	2.0	1.7	5.3	3.1	.0	.0	16.5	
	TOT %	4.0	2.1	2.1	2.4	3.8	5.1	9.4	6.1	.0	.*	35.0	
10+	0-3	.1	.1	.*	.*	.2	.1	.1	.1	.0	.4	1.2	
	4-10	1.1	.6	.4	.4	1.3	1.6	2.2	1.8	.0	.0	9.4	
	11-21	2.3	1.0	1.2	.7	2.2	3.6	4.6	3.8	.0	.0	19.5	
	22+	1.7	.4	.4	.4	.3	1.7	5.1	3.3	.0	.0	13.2	
	TOT %	5.2	2.0	2.0	1.6	4.0	7.0	12.0	9.0	.0	.4	43.3	
TOT OBS		11.5	6.8	5.9	6.2	11.9	15.6	24.6	16.8	.0	.6	100.0	2014
TOT PCT													

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	8.3	.3	2.7	9.4	25.7	18.3	2.9	.6	.6	2.1	70.8	29.2	339
06009	12.2	.5	1.5	7.8	24.3	21.5	2.3	1.0	1.0	1.3	73.4	26.6	395
12015	7.8	.5	2.3	12.3	23.1	23.9	3.8	2.3	.8	.5	77.1	22.9	398
18021	7.4	.5	2.9	13.2	27.9	17.9	3.2	1.1	1.1	.8	75.8	24.2	380
TOT	135	7	35	162	381	310	46	19	13	17	1125	387	1512
PCT	8.9	.5	2.3	10.7	25.2	20.5	3.0	1.3	.9	1.1	74.4	25.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	4.4	2.8	5.2	7.8	36.2	43.5	497
06009	6.3	3.3	4.0	7.9	35.7	42.8	521
12015	5.6	4.2	3.6	8.7	34.7	43.3	554
18021	5.2	3.0	6.1	9.3	32.9	43.5	462
TOT	110	68	95	171	710	880	2034
PCT	5.4	3.3	4.7	8.4	34.9	43.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	8.7	12.7	27.3	45.7	27.0	322
06009	12.3	15.0	28.9	45.9	25.2	381
12015	7.1	12.2	32.2	45.4	22.3	394
18021	7.6	13.0	31.1	46.2	22.7	370
TOT	131	194	440	672	355	1467
PCT	8.9	13.2	30.0	45.8	24.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	.0	.0	.3	3	.3
40/44	.0	.3	.0	.1	.3	.4	.8	4.3	70	6.1
35/39	.0	.0	.0	.3	1.3	2.4	8.5	16.4	329	28.8
30/34	.0	.0	.3	.7	2.2	5.7	12.8	14.5	412	36.1
25/29	.0	.0	.4	.3	1.1	4.6	3.4	5.6	175	15.3
20/24	.0	.0	.0	.1	.2	2.9	2.5	2.6	95	8.3
15/19	.0	.0	.0	.1	.4	.7	1.6	1.4	48	4.2
10/14	.0	.0	.0	.0	.1	.0	.1	.6	9	.8
TOTAL	0	3	8	17	63	190	339	521	1141	100.0
PCT	.0	.3	.7	1.5	5.5	16.7	29.7	45.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
45/49	.0	.0	.0	.0	.2	.4	.0	.0	.0	.0
40/44	.1	.3	.7	.6	2.0	1.3	1.1	.0	.0	.0
35/39	3.4	2.5	2.4	2.8	5.6	5.8	4.3	1.8	.0	.4
30/34	6.2	2.7	3.2	2.2	3.8	6.0	7.6	4.1	.0	.3
25/29	1.6	.5	.7	.8	1.0	2.1	4.8	3.8	.0	.0
20/24	1.5	.1	.2	.1	.4	.4	2.5	3.2	.0	.0
15/19	.4	.1	.0	.0	.0	.2	1.7	1.8	.0	.0
10/14	.0	.0	.0	.0	.0	.0	.5	.3	.0	.0
TOTAL	13.1	6.4	7.1	6.6	12.9	15.9	22.5	15.0	.0	.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	51	44	40	32	20	16	11	31.3	355
06009	48	42	39	32	18	15	11	31.1	344
12015	50	44	40	32	17	14	11	30.6	593
18021	53	45	40	32	19	15	10	31.2	482
TOT	53	44	40	32	18	14	10	31.0	2174

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.0	3.4	17.7	30.4	47.4	87	293		
06009	.0	1.9	6.7	17.0	29.5	44.9	87	312		
12015	.0	2.8	4.5	15.7	27.6	49.3	87	286		
18021	.0	4.2	7.7	15.7	30.3	42.1	85	261		
TOT	0	28	64	191	339	530	87	1192		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	0- 1?	1- 16	17- 20	21- 24	25- 28	29- 32	33- 36	37- 40	41- 44	45- 48	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.1		4	.1	.2
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	9	.0	.6
7/8	.0	.0	.0	.0	.0	.0	.0	1.5	.5	.1	34	.7	1.4
6	.0	.0	.0	.0	.0	.0	.2	1.4	.6	.1	37	.7	1.3
5	.0	.0	.0	.0	.0	.0	.8	1.9	.2	.0	48	.7	2.2
4	.0	.0	.0	.0	.0	.1	2.0	1.8	.1	.0	65	.6	3.4
3	.0	.0	.0	.0	.0	.2	3.3	2.3	.2	.0	101	1.4	4.8
2	.0	.0	.0	.0	.0	.3	4.6	1.4	.2	.0	106	1.1	5.5
1	.0	.0	.0	.0	.1	1.1	3.4	.9	.1	.0	121	.7	6.7
0	.0	.0	.0	.0	.0	2.4	4.9	1.1	.1	.0	138	.4	8.2
-1	.0	.0	.0	.0	.2	3.9	2.9	.2	.1	.1	120	.6	6.8
-2	.0	.0	.0	.0	.3	3.7	1.8	.4	.1	.0	102	.2	6.1
-3	.0	.0	.0	.1	.9	3.4	1.2	.0	.0	.0	90	.1	5.5
-4	.0	.0	.0	.1	2.1	2.6	.9	.0	.0	.0	92	.0	5.7
-5	.0	.0	.0	.2	1.7	2.2	.6	.2	.0	.0	77	.2	4.6
-6	.0	.0	.0	.7	1.6	1.2	.5	.1	.0	.0	66	.1	4.0
-7/-8	.0	.0	.1	2.3	2.2	1.1	.4	.0	.0	.0	100	.1	6.1
-9/-10	.0	.0	.9	1.9	2.0	1.1	.4	.1	.0	.0	102	.1	6.2
-11/-13	.0	.3	2.2	2.4	1.1	.5	.1	.1	.0	.0	109	.2	6.5
-14/-16	.0	.7	2.0	.2	.2	.1	.1	.0	.0	.0	53	.1	3.2
-17/-19	.3	.8	.9	.1	.3	.1	.0	.0	.0	.0	40	.0	2.5
-20/-22	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.3
TOTAL	9	34	98	129	206	386	490	220	6		1619	130	1489
PCT	.9	2.1	6.1	8.0	12.7	23.8	30.3	13.6	2.8	.4	100.0	8.0	92.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.5	.2	.0	.0	.0	.6	.0	.5	.0	.0	.0	.0	.6
1-2	.0	.6	.1	.0	.0	.0	.7	.0	.2	.2	.0	.0	.0	.6
3-4	.0	.2	1.4	.5	.0	.0	2.0	.0	.2	.4	.2	.0	.0	.8
5-6	.0	.0	1.1	.6	.0	.0	1.7	.0	.0	.7	.1	.2	.0	1.0
7	.0	.0	.2	1.5	.2	.0	1.8	.0	.0	.6	1.0	.2	.0	1.7
8-9	.0	.0	.3	1.0	.2	.0	1.5	.0	.0	.2	.2	.0	.0	.3
10-11	.0	.0	.4	.7	.1	.0	1.2	.0	.0	.1	.3	.0	.0	.5
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.8	.0	.0	1.0
13-16	.0	.0	.0	.6	.2	.2	1.0	.0	.0	.0	.6	.0	.0	.7
17-19	.0	.0	.0	.3	.4	.0	.7	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.2	.1	.3	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	3.7	5.4	1.3	.3	11.9	.2	.4	2.4	3.4	.4	.0	6.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.5	.0	.0	.0	.6	.0	.8	.5	.0	.0	.0	1.3
3-4	.2	.0	1.2	.0	.0	.0	1.4	.0	.0	.7	.0	.0	.0	.8
5-6	.0	.0	1.0	.1	.0	.0	1.1	.0	.0	.8	.2	.0	.0	1.1
7	.0	.0	1.0	.8	.0	.0	1.8	.0	.0	.2	.4	.2	.0	.7
8-9	.0	.0	.2	.5	.2	.0	.8	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.1	.0	.2	.0	.0	.3	.0	.0	.2	.5	.2	.0	.9
12	.0	.0	.0	.2	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.2	.0	.5	.0	.0	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.4	3.8	2.2	.5	.2	7.2	.0	.9	2.5	1.3	.5	.0	5.3

PERIOD: (OVER-ALL) 1963-1971

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.4	.0	.0	.0	.0		.6	.0	.1	.0	.0	.0	.0		.1
1-2	.0	1.6	.5	.0	.0	.0		2.0	.0	.6	.1	.0	.0	.0		.7
3-4	.0	.5	1.2	.1	.0	.0		1.8	.0	1.2	2.9	.*	.0	.0		4.1
5-6	.0	.3	1.8	.8	.2	.0		3.2	.0	.3	2.5	.8	.*	.0		3.7
7	.0	.2	1.5	.4	.0	.0		2.0	.0	.0	1.3	.7	.0	.0		2.0
8-9	.0	.0	.1	.6	.0	.0		.7	.0	.2	1.0	.7	.0	.2		2.0
10-11	.0	.0	.0	.2	.0	.0		.2	.0	.0	.2	1.2	.*	.0		1.5
12	.0	.0	.0	.2	.0	.0		.2	.0	.0	.2	.4	.*	.0		.6
13-16	.0	.0	.0	.5	.2	.0		.6	.0	.0	.0	.2	.0	.0		.2
17-19	.0	.2	.0	.0	.0	.0		.2	.0	.0	.0	.0	.*	.0		.*
20-22	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.*	.0		.*
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	3.1	5.0	2.8	.5	.0		11.7	.0	2.5	8.2	4.1	.2	.2		15.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.5	.0	.0	.0	.0		.5	.2	.2	.0	.0	.0	.0		.3	
1-2	.0	.5	.7	.0	.0	.0		1.2	.0	1.2	.4	.0	.0	.0		1.6	
3-4	.0	.7	2.8	.7	.0	.0		4.2	.0	.3	1.6	.7	.0	.0		2.7	
5-6	.0	.1	1.5	1.7	.3	.0		3.7	.0	.*	1.3	2.2	.2	.0		3.8	
7	.0	.0	.7	1.8	.5	.0		3.0	.0	.0	.7	.9	.*	.0		1.6	
8-9	.0	.0	1.4	1.3	.2	.0		2.9	.0	.0	.6	1.1	.3	.0		2.0	
10-11	.0	.0	.5	.6	.5	.0		1.7	.0	.0	.5	1.0	.5	.2		2.2	
12	.0	.0	.3	.8	.7	.0		1.4	.0	.0	.*	.7	.7	.2		1.6	
13-16	.0	.0	.0	1.7	1.0	.0		2.6	.0	.0	.0	1.5	.9	.0		2.4	
17-19	.0	.0	.0	.0	.5	.0		.5	.0	.0	.0	.2	.2	.0		.4	
20-22	.0	.0	.0	.2	.2	.0		.3	.0	.0	.0	.0	.0	.*		.*	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.2	.2		.3	
26-32	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	1.7	8.1	8.8	3.5	.0		22.1	.2	1.7	5.2	8.3	3.0	.5		19.0	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.3	1.8	.2	.0	.0	.0	3.3	
1-2	.2	5.6	3.0	.0	.0	.0	8.8	
3-4	.2	3.0	12.3	2.3	.0	.0	17.8	
5-6	.0	.8	10.8	6.6	1.0	.0	19.3	
7	.0	.2	6.1	7.5	1.0	.0	14.8	
8-9	.0	.2	3.8	5.3	.8	.2	10.3	
10-11	.0	.2	2.0	4.6	1.3	.2	8.5	
12	.0	.0	.7	3.3	1.2	.2	5.3	
13-16	.0	.0	.0	5.6	2.5	.2	8.3	
17-19	.0	.2	.0	.7	1.2	.0	2.0	
20-22	.0	.0	.0	.2	.7	.2	1.0	
23-25	.0	.0	.0	.0	.2	.2	.3	
26-32	.0	.0	.0	.0	.2	.2	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	12.0	38.9	36.4	10.0	1.2	100.0	602

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.2	2.7	6.2	4.7	3.1	1.0	.5	.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	252	5
6-7	.0	.3	2.7	6.3	7.8	5.6	3.8	1.2	1.4	.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	389	7
8-9	.0	.1	1.0	2.8	4.1	3.4	3.4	2.4	5.0	1.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	310	10
10-11	.0	.0	.5	1.1	1.6	1.3	1.6	2.3	1.0	.9	.2	.1	.4	.0	.0	.0	.0	.0	.0	143	11
12-13	.0	.0	.0	.2	.2	.4	.4	.5	.4	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	34	13
>13	.0	.0	.0	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	25	16
INDET	.6	.8	1.7	2.1	3.1	1.2	1.3	.5	.6	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	158	6
TOTAL	11	51	158	227	262	171	147	98	116	95	11	11	11	2	0	0	0	0	0	1311	8
PCT	.8	3.9	12.1	17.3	20.0	13.0	11.2	7.5	8.8	2.7	.8	.8	.8	.2	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1877-1971

FEBRUARY

AREA 0004 SE NEWFOUNDLAND COAST
46.0N 51.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	1.6	1.0	.0	.5	15.3	.4	.0	18.0	4.3	.0	7.6	.4	1.4	.0	68.3
NE	3.5	1.5	3.5	.0	12.0	1.3	.0	20.8	5.3	.0	10.0	.0	.5	.0	63.5
E	11.2	.4	6.8	.0	18.4	.0	.0	34.7	5.8	.0	13.2	.8	.6	.0	44.8
SE	11.7	5.2	4.5	1.4	14.5	.0	.0	35.2	3.3	.0	16.0	.0	.0	.2	45.3
S	10.0	2.8	5.0	.7	9.8	.7	.0	28.6	2.4	.0	20.5	1.4	.7	.5	45.9
SW	3.2	1.1	.7	.9	14.2	.5	.0	19.7	4.6	.0	9.3	.1	.0	.0	66.3
W	.8	1.2	.0	.0	15.6	.0	.0	17.1	7.9	.0	2.7	.5	.0	.0	71.9
NW	1.4	1.0	.8	.0	14.3	.8	.0	17.2	5.5	.0	2.9	.1	.0	.0	74.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	7.1	.0	.0	7.1	.0	.0	7.1	.0	.0	.0	85.7
TOT PCT	4.1	1.6	1.8	.4	14.4	.4	.0	21.8	5.3	.0	8.4	.4	.3	.1	63.8
TOT OBS: 1978															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	4.8	1.1	2.4	.8	13.4	.3	.0	21.7	4.0	.0	7.0	.8	.0	.3	66.2
06009	4.2	1.5	1.0	.0	17.3	.5	.0	24.0	5.4	.0	6.7	.5	.2	.0	63.2
12015	3.1	2.1	2.6	.5	16.2	.5	.0	24.2	3.5	.0	11.3	.0	.0	.0	60.9
18021	4.4	1.6	1.6	.3	11.1	.3	.0	17.6	8.3	.0	8.3	.3	1.0	.0	64.6
TOT PCT TOT OBS: 1990	4.1	1.6	1.9	.4	14.6	.4	.0	21.9	5.3	.0	8.4	.4	.3	.1	63.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	1.9	5.2	3.1	1.4	.1		12.0	20.1		10.5	6.3	13.9	14.2	12.4	12.3	12.7	9.1
NE	.2	1.5	2.6	1.8	.3	.1		6.5	17.9		6.8	10.5	8.7	4.3	5.1	4.5	5.3	5.8
E	.1	2.2	2.8	1.9	.3	.0		7.4	17.4		5.2	12.5	8.1	9.7	6.7	7.3	6.8	9.4
SE	.2	1.9	3.7	2.8	1.0	.0		9.1	20.0		8.6	6.9	8.3	12.6	10.2	9.2	8.3	11.0
S	.0	1.7	4.1	3.0	.7	.2		9.7	20.4		8.1	11.6	9.4	9.9	8.6	11.6	12.1	7.1
SW	.1	1.5	5.6	4.3	1.7	.3		13.5	22.4		14.5	11.4	14.1	11.6	13.5	10.4	14.8	10.7
W	.0	2.9	9.4	7.8	3.8	.7		24.6	23.1		26.6	26.1	22.1	18.3	26.8	25.7	22.8	28.9
NW	.2	1.9	7.2	4.9	2.0	.4		18.5	22.1		19.1	14.7	14.7	19.4	15.6	19.1	15.9	16.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0		.6	.0	.8	.0	1.1	.0	1.2	1.3
TOT DBS	30	276	713	526	198	29	1772		21.0		325	112	358	93	364	106	337	77
TOT PCT	1.7	15.6	40.7	29.7	11.2	1.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	.7	4.2	4.3	2.4	.3			12.0	20.1		9.4	14.0	12.4	12.0
NE	.4	2.6	2.8	.4	.2			6.5	17.9		7.7	7.8	4.9	5.4
E	.7	3.1	2.5	1.1	.1			7.4	17.4		7.0	8.4	6.9	7.3
SE	.8	3.0	2.8	2.2	.2			9.1	20.0		8.2	9.2	8.9	8.8
S	.6	3.5	3.1	2.0	.4			9.7	20.4		9.0	9.5	9.3	11.2
SW	.3	3.9	5.6	2.8	.9			13.5	22.4		13.7	13.6	12.8	14.0
W	.9	6.4	9.5	6.1	1.6			24.6	23.1		26.5	21.3	26.5	24.0
NW	.7	4.4	6.9	3.7	.8			18.5	22.1		18.0	15.6	16.4	16.1
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	.8							.8	.0		.5	.7	.9	1.2
TOT DBS	105	550	670	369	78	1772			21.0		437	451	470	414
TOT PCT	5.9	31.0	37.8	20.8	4.4			100.0			100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1877-1971

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	.5	.5	12.4	42.3	32.0	10.1	2.3	21.5	100.0	437
06609	.7	.7	16.4	38.1	30.4	12.4	1.3	21.1	100.0	491
12615	.9	1.7	18.5	41.9	25.7	9.9	1.5	19.9	100.0	470
18621	1.2	.7	14.7	38.4	30.9	12.6	1.4	21.9	100.0	414
TOT	14	16	276	713	526	198	29	21.0		1772
PCT	.8	.9	15.6	40.2	29.7	11.2	1.6	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	1.0	1.1	2.6	6.9		6.6
NE	.6	.4	1.8	3.4		6.5
E	.3	.1	1.1	6.3		7.4
SE	.3	.2	.6	8.0		7.5
S	1.1	.2	1.7	6.6		6.8
SW	1.9	1.2	3.6	7.0		6.1
W	3.8	3.0	9.0	8.7		5.6
NW	2.7	.9	5.9	7.1		6.0
VAR	.0	.0	.0	.0		.0
CALM	.1	.2	.3	.3		5.5
TOT OBS	151	93	339	691	1274	6.3
TOT PCT	11.9	7.3	26.6	54.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH $\geq 4/8$
AND OCCURRENCE OF NH $< 5/8$ BY WIND DIRECTION

DISTRIBUTION OF WIND DIRECTION																		
WIND DIR	0-2	3-4	5-7	8-6 OBSCD	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.0	1.1	2.6	6.9		6.6	.8	.1	.3	1.8	2.7	2.3	.7	.*	.2	.0	2.8	
NE	.6	.4	1.8	3.4		6.5	.7	.0	.3	.6	1.3	.9	.3	.2	.*	.2	1.8	
E	.3	.1	1.1	6.3		7.4	1.3	.1	.5	1.2	1.7	1.3	.2	.2	.1	.3	1.0	
SE	.3	.2	.6	8.0		7.5	1.7	.*	.4	1.4	2.6	1.3	.1	.1	.2	.4	1.0	
S	1.1	.2	1.7	6.6		6.8	1.7	.1	.3	1.2	2.1	1.3	.2	.1	.1	.2	2.1	
SW	1.9	1.2	3.6	7.0		6.1	1.5	.0	.4	1.5	3.0	2.5	.7	.1	.2	.0	3.9	
W	3.8	3.0	9.0	8.7		5.6	.5	.0	.4	1.8	6.6	6.3	.6	.1	.0	.1	8.1	
NW	2.7	.9	5.9	7.1		6.0	.7	.1	.4	1.9	4.0	3.8	1.0	.1	.2	.0	4.5	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.2	.3	.3		5.5	.0	.0	.0	.2	.1	.2	.0	.1	.0	.0	.5	
TOT OBS	151	93	339	691	1274	6.3	113	5	35	147	308	252	49	12	12	15	326	1274
TOT PCT	11.9	7.3	26.6	54.2	100.0		8.9	.4	2.7	11.5	24.2	19.8	3.8	.9	.9	1.2	25.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH $\geq 4/8$) AND VSBY (NH)

CEILING (FEET)	= OR >10			= OR >2			= OR >1/2			= OR >1/4			= OR >50VD			= OR >0		
= OR ≥ 5000	1.1	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
= OR ≥ 3000	1.3	2.8	3.0	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
= OR ≥ 2000	3.3	6.3	6.8	6.8	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
= OR ≥ 1000	11.8	23.5	26.3	26.3	26.8	26.8	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9
= OR ≥ 600	20.9	43.2	49.5	50.2	51.0	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
= OR ≥ 300	24.4	50.8	59.2	60.8	62.2	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
= OR ≥ 150	25.0	52.5	61.1	63.0	64.8	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
= OR ≥ 0	25.1	53.3	62.3	65.6	69.0	70.7	73.9	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
TOTAL	316	672	785	876	870	891	931	936	936	936	936	936	936	936	936	936	936	936

TOTAL NUMBER OF OBS: 1260

PCT FREQ NH $< 5/8$: 25.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	7.7	3.4	5.4	4.9	3.6	5.8	10.2	10.2	40.0	8.4	1349

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PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1877-1971AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	.2	.4	.3	.3	.3	.1	.3	.0	.0	2.2	
	NO PCP	.2	.4	.6	.8	.8	.9	.9	.4	.0	.0	3.8	
	TOT %	.3	.6	1.1	1.1	1.1	.8	.1	.7	.0	.0	6.0	
1/2<1	PCP	.4	.1	.4	.5	.1	.7	.9	.3	.0	.0	2.5	
	NO PCP	.3	.2	.1	.3	.2	.5	.2	.0	.0	.0	1.7	
	TOT %	.7	.2	.4	.8	.4	.7	.7	.3	.0	.0	4.2	
1<2	PCP	.2	.1	.2	.7	.4	.7	.2	.1	.0	.0	2.2	
	NO PCP	.9	.0	.3	.2	.2	.1	.3	.1	.0	.1	1.3	
	TOT %	.2	.1	.6	.9	.7	.4	.4	.3	.0	.1	3.5	
2<5	PCP	.4	.4	.7	1.0	.7	.7	.5	.5	.0	.0	4.9	
	NO PCP	.8	.3	.5	.5	.7	1.4	2.0	1.0	.0	.0	7.2	
	TOT %	1.3	.6	1.2	1.5	1.5	2.0	2.5	1.4	.0	.0	12.0	
5<10	PCP	.7	.5	.9	.8	1.1	1.1	2.3	1.3	.0	.0	8.7	
	NO PCP	3.2	1.8	1.6	1.5	1.8	4.4	8.6	4.8	.0	.3	28.0	
	TOT %	3.9	2.3	2.6	2.4	2.8	5.5	10.9	6.1	.0	.3	36.8	
10+	PCP	.1	.1	.1	.0	.0	.7	.6	.3	.0	.1	1.4	
	NO PCP	5.4	2.4	1.9	2.5	2.8	4.4	9.1	7.1	.0	.4	36.1	
	TOT %	5.5	2.6	2.0	2.5	2.8	4.5	9.7	7.4	.0	.5	37.5	
TOT OBS													1566
TOT PCT		12.1	6.4	7.7	9.2	9.2	13.9	24.4	16.2	.0	.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.2	
	4-10	.2	.3	.4	.2	.2	.1	.1	.2	.0	.0	1.5	
	11-21	.2	.1	.2	.3	.2	.3	.1	.2	.0	.0	1.6	
	22+	.2	.2	.5	.3	.6	.3	.1	.4	.0	.0	2.8	
	TOT %	.6	.6	1.1	1.1	1.1	.8	.2	.8	.0	.0	6.1	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.2	.2	.0	.1	.2	.0	.0	.0	.8	
	11-21	.2	.1	.2	.3	.2	.3	.2	.2	.0	.0	1.6	
	22+	.3	.1	.2	.3	.2	.3	.4	.1	.0	.0	1.9	
	TOT %	.6	.2	.5	.8	.5	.6	.7	.3	.0	.0	4.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.3	.2	.2	.0	.0	.1	.0	.0	.7	
	11-21	.1	.1	.2	.3	.3	.1	.1	.1	.0	.0	1.1	
	22+	.1	.0	.1	.4	.2	.3	.3	.1	.0	.0	1.5	
	TOT %	.2	.1	.6	.9	.6	.4	.4	.2	.0	.1	3.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.3	.1	.1	.1	.3	.2	.0	.0	1.2	
	11-21	.6	.2	.4	.7	.6	.8	.9	.6	.0	.0	4.9	
	22+	.6	.4	.4	.7	.8	1.0	1.2	.6	.0	.0	5.5	
	TOT %	1.2	.7	1.1	1.4	1.5	2.0	2.4	1.4	.0	.0	11.7	
5<10	0-3	.0	.1	.0	.0	.0	.1	.0	.1	.0	.3	.5	
	4-10	.4	.4	.4	.2	.5	.2	1.3	.5	.0	.0	3.9	
	11-21	1.7	1.0	1.2	1.0	1.3	2.3	3.3	2.2	.0	.0	13.9	
	22+	1.8	.8	.8	1.3	1.1	2.6	5.8	3.1	.0	.0	17.4	
	TOT %	3.9	2.3	2.5	2.5	2.8	5.2	10.4	5.8	.0	.3	35.7	
10+	0-3	.2	.1	.1	.0	.0	.0	.0	.1	.0	.5	1.0	
	4-10	1.2	.7	.7	1.0	.8	1.1	1.2	1.0	.0	.0	7.7	
	11-21	2.6	1.3	.9	.7	1.5	1.7	4.4	3.7	.0	.0	16.9	
	22+	1.7	.8	.3	.7	.8	1.7	4.3	2.7	.0	.0	13.2	
	TOT %	5.8	3.0	2.0	2.5	3.0	4.5	10.1	7.5	.0	.5	38.8	
TOT OBS													1664
TOT PCT		12.3	6.9	7.8	9.2	9.4	13.5	24.2	16.0	.0	.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	10.0	.4	1.8	9.7	25.8	12.5	3.2	1.1	2.2	.4	67.0	33.0	279
06009	12.0	.0	1.9	9.9	20.4	21.3	2.8	1.2	.9	.9	71.3	28.7	324
12015	7.5	.3	3.5	12.4	25.4	24.0	3.8	1.2	.6	1.7	80.3	19.7	346
18021	6.1	.9	3.5	13.0	23.8	19.1	5.2	.3	.3	1.4	73.6	26.4	345
TOT PCT	114 8.8	5 .4	35 2.7	147 11.4	308 23.8	293 19.6	49 3.8	12 .9	12 .9	15 1.2	950 73.4	344 26.6	1294 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1-2	2-5	5-10	10+	TOTAL OBS
00003	5.5	4.3	2.8	11.8	40.9	34.8	399
06009	7.3	4.0	3.1	12.0	34.1	39.5	425
12015	6.0	4.9	4.5	13.2	32.8	38.6	448
18021	5.9	4.0	3.2	9.7	35.1	42.1	404
TOT PCT	104 6.2	72 4.3	37 3.4	196 11.7	397 35.6	650 38.8	1676 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	9.2	13.0	30.2	40.8	29.0	262
06009	12.1	15.3	31.9	41.9	26.2	313
12015	7.6	13.7	36.0	46.2	17.7	344
18021	5.9	12.4	32.0	43.1	24.9	341
TOT PCT	108 8.6	172 13.7	412 32.7	544 43.2	304 24.1	1260 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	.2	.0	.0	2	.2
40/44	.0	.0	.0	.2	.1	.4	.3	3.0	37	4.1
35/39	.0	.0	.0	.8	.5	1.1	4.3	13.0	180	19.7
30/34	.0	.0	.0	.2	1.5	5.4	11.7	19.2	347	38.0
25/29	.0	.0	.0	.9	2.1	4.5	5.6	6.7	180	19.7
20/24	.0	.0	.0	.2	.4	2.9	3.9	2.7	93	10.2
15/19	.0	.0	.2	.1	1.1	.9	2.2	1.2	32	3.7
10/14	.0	.0	.0	.0	.3	.4	.5	1.0	21	2.3
TOTAL	0	0	2	22	36	144	261	427	912	100.0
PCT	.0	.0	.2	2.4	6.1	15.8	28.6	46.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
.2	.1	.7	1.0	1.4	.3	.3	.1	.0	.0
1.5	2.1	3.9	3.4	3.3	3.3	1.5	.8	.0	.0
5.9	3.4	3.9	3.7	3.4	6.5	6.0	4.9	.0	.3
2.9	1.8	.9	1.3	1.5	1.5	6.2	3.6	.0	.1
.7	.5	.2	.2	.1	1.2	3.8	3.5	.0	.1
.8	.1	.1	.0	.0	.0	3.2	1.5	.0	.0
.1	.0	.0	.0	.0	.0	1.2	1.1	.0	.0
12.0	8.0	9.7	9.6	9.7	12.8	22.1	15.5	.0	.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	PAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	44	43	38	30	17	10	7	29.7	433
06009	47	42	39	31	15	10	9	29.4	451
12015	43	41	38	30	14	11	7	29.1	465
18021	48	43	39	32	18	12	10	30.5	413
TOT	48	42	39	31	17	11	7	29.7	1762

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.2	3.8	13.2	27.4	51.4			88	212
06009	.0	2.1	5.8	14.0	35.8	42.4			87	243
12015	.0	2.0	6.7	17.5	24.6	49.2			87	252
18021	.0	2.3	8.0	17.8	27.2	44.6			86	213
TOT	0	24	36	144	265	431			87	920

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46.0N 51.5W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	08	09	13	17	21	25	29	33	37	41	45	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.7	.7	.0	19	.7	.7
7/8	.0	.0	.0	.0	.0	.0	.0	.4	2.4	.4	.0	44	.5	2.7
6	.0	.0	.0	.0	.0	.0	.0	.9	1.0	.2	.0	28	.3	1.8
5	.0	.0	.0	.0	.0	.0	.3	1.5	2.1	.4	.0	59	.6	3.7
4	.0	.0	.0	.0	.0	.0	.6	2.2	1.0	.1	.0	52	.8	3.0
3	.0	.0	.0	.0	.0	.0	.7	2.6	.9	.1	.0	59	.7	3.6
2	.0	.0	.0	.0	.0	.0	1.5	4.6	1.1	.1	.0	99	.9	6.4
1	.0	.0	.0	.0	.0	.1	2.5	3.3	.4	.0	.0	86	1.0	5.3
0	.0	.0	.0	.0	.0	.2	4.9	3.3	.4	.1	.0	121	1.0	7.9
-1	.0	.0	.0	.0	.0	.7	4.0	1.5	.1	.0	.0	86	.4	6.0
-2	.0	.0	.0	.0	.0	1.8	4.3	1.4	.0	.0	.0	101	.8	6.6
-3	.0	.0	.0	.0	.0	2.4	3.0	.5	.1	.0	.0	81	.4	5.6
-4	.0	.0	.0	.0	.3	2.4	2.3	.4	.0	.0	.0	74	.3	5.1
-5	.0	.0	.0	.0	.4	2.4	1.5	.1	.1	.1	.0	63	.1	4.5
-6	.0	.0	.0	.0	1.1	2.0	.6	.1	.1	.0	.0	52	.0	3.8
-7/-8	.0	.0	.0	.2	1.9	2.6	.6	.0	.0	.1	.0	89	.0	6.5
-9/-10	.0	.0	.0	1.2	1.9	1.4	.4	.1	.0	.0	.0	89	.1	5.0
-11/-13	.0	.0	.2	2.0	1.8	.8	.4	.0	.0	.0	.0	71	.1	5.1
-14/-16	.0	.1	1.0	1.7	.6	.1	.0	.1	.0	.0	.0	50	.0	5.7
-17/-19	.0	.4	.9	.5	.0	.1	.0	.1	.0	.0	.0	26	.0	1.9
-20/-22	.0	1.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	20	.0	1.5
-23/-25	.1	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	7	.0	.5
-26/-30	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	74	79	126	231	318	374	141	29	2	1361	117	1244	
PCT	.1	1.8	2.6	5.8	9.3	17.0	27.5	23.4	10.4	2.1	.1	100.0	8.6	91.4

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.4	.0	.0	.0	.0	.4	.2	.4	.0	.0	.0	.0	.6
1-2	.2	.6	.8	.0	.0	.0	1.6	.0	1.2	.2	1.6	.0	.0	1.4
3-4	.1	.4	1.9	.5	.0	.0	2.9	.0	.7	.9	.2	.0	.0	1.8
5-6	.0	.2	2.4	.1	.0	.0	2.7	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	1.0	.9	.3	.0	2.1	.0	.0	.3	.4	.0	.0	.7
8-9	.0	.2	.5	.6	.0	.0	1.2	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.2	.3	.0	.4	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.4	.8	.0	1.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.8	6.5	3.2	1.6	.1	13.4	.2	2.4	2.4	1.2	.0	.0	6.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.0	.0	.0	.0	.3	.2	.3	.0	.0	.0	.0	.4
1-2	.0	1.0	.2	.0	.0	.0	1.1	.0	1.1	.3	.0	.0	.0	1.6
3-4	.0	.1	.6	.5	.0	.0	1.2	.0	.3	1.1	.2	.0	.0	1.6
5-6	.0	.2	.6	.0	.0	.0	.8	.0	.2	.8	.0	.2	.0	1.1
7	.0	.2	1.0	.3	.0	.0	1.4	.0	.0	.4	.7	.0	.0	1.1
8-9	.0	.0	.2	.4	.0	.0	.6	.0	.0	.0	.3	.2	.0	.8
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	2.6	1.3	.0	.0	5.8	.2	1.8	3.0	2.2	.7	.0	7.9

PERIOD: (OVER-ALL) 1963-1971

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AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.0	.0	.0	.0	.3	.2	.4	.0	.0	.0	.0	.5	
1-2	.0	1.1	.3	.0	.0	.0	1.4	.2	.6	.3	.0	.0	.0	1.0	
3-4	.0	.2	.9	.0	.0	.0	1.1	.0	.4	2.3	.7	.0	.0	3.4	
5-6	.0	.0	1.1	.8	.0	.0	1.9	.0	.2	1.3	.5	.2	.0	2.1	
7	.0	.0	.8	.5	.0	.0	1.3	.0	.0	.5	1.1	.2	.0	1.8	
8-9	.0	.0	.3	.1	.2	.0	.6	.0	.0	.6	1.2	.2	.0	2.0	
10-11	.0	.2	.0	.1	.0	.0	.3	.0	.0	.2	.3	.4	.0	1.2	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.8	.3	.0	1.0	
13-16	.0	.0	.1	1.0	.5	.0	1.6	.0	.0	.0	.5	.5	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.1	.2	.3	.0	.0	.0	.0	.6	.0	.6	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.3	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.7	3.5	2.6	.8	.2	6.8	.9	1.6	5.1	5.3	2.6	.5	15.4	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	27-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	1.1	.4	.0	.0	.0	1.5	.0	.5	.6	.0	.0	.0	1.1	
3-4	.0	.9	2.8	.3	.0	.0	4.1	.0	.3	1.4	.5	.0	.0	2.2	
5-6	.0	.2	2.8	.5	.3	.0	3.5	.0	.3	2.2	1.9	.0	.0	4.5	
7	.0	.0	1.2	.9	.2	.2	2.5	.0	.0	1.1	.8	.3	.0	2.1	
8-9	.0	.0	1.3	1.1	.8	.0	3.1	.0	.0	.5	.5	.4	.0	1.1	
10-11	.0	.0	.6	.9	.3	.0	1.8	.0	.0	.2	1.3	.2	.2	1.8	
12	.0	.0	.0	.4	.9	.0	1.3	.0	.0	.0	.8	.4	.0	1.3	
13-16	.0	.0	.3	.8	1.5	.5	3.1	.0	.0	.0	.7	.6	.4	1.3	
17-19	.0	.0	.0	.3	.3	.0	.6	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.4	.5	.9	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.5	.5	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.4	9.2	5.3	4.6	1.4	23.8	.8	1.6	6.1	6.5	1.9	.8	16.9	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.3	3.9	.0	.0	.0	.0	6.2	
1-2	.5	7.0	3.2	.0	.0	.0	10.7	
3-4	.2	3.4	11.9	7.8	.0	.0	18.3	
5-6	.2	1.2	11.7	9.9	.7	.0	17.6	
7	.0	.2	6.2	5.5	.7	.3	12.9	
8-9	.0	.2	3.5	4.5	1.3	.0	9.5	
10-11	.0	.2	1.2	3.7	.8	.2	6.0	
12	.0	.0	.0	3.2	1.8	.0	5.0	
13-16	.0	.0	.5	3.5	3.9	.5	8.4	
17-19	.0	.0	.0	.5	1.2	.0	1.7	
20-22	.0	.0	.0	.0	1.5	.7	2.2	
23-25	.0	.0	.0	.0	.2	.3	.5	
26-32	.0	.0	.0	.0	.0	1.0	1.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.2	15.9	38.2	27.6	12.1	3.0	100.0	597

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	6.1	6.3	5.3	3.0	2.2	.6	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	260
6-7	.0	.5	3.0	6.9	7.0	3.8	3.8	2.8	1.8	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	344
8-9	.0	.3	.3	1.7	3.1	3.6	2.5	2.9	3.7	1.1	.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	232
10-11	.0	.1	.2	.5	1.4	1.3	1.6	1.0	1.8	1.0	1.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	117
12-13	.0	.0	.1	.2	.1	.3	.5	.5	1.1	.1	.3	.2	.3	.0	.0	.0	.0	.0	.0	.0	42
>13	.0	.0	.0	.2	.1	.0	.2	.2	.3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	14
INDEX	1.0	.8	1.5	.6	2.8	2.4	1.1	.6	1.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	142
TOTAL	1.9	66	129	176	202	153	119	92	119	92	77	8	9	0	0	0	0	0	0	0	1131
PCT	1.7	5.7	11.2	15.3	17.5	13.3	10.3	8.0	10.3	2.8	2.3	.7	.8	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1949-1971
(OVER-ALL) 1879-1971

MARCH

AREA 0004 SE NEWFOUNDLAND COAST
46.8N 51.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	1.8	.0	2.5	.5	13.7	.0	2.8	20.8	1.3	.0	10.8	.0	.5	.4	66.2
NE	3.4	.6	3.1	.0	8.8	.2	1.8	16.9	2.0	.0	18.1	.0	.6	.0	62.4
E	6.2	2.3	3.5	.0	16.9	2.7	2.1	21.5	.0	.0	17.7	1.4	1.6	.0	47.6
SE	10.7	3.7	2.8	1.4	17.5	.6	3.4	27.3	2.5	1.1	16.9	.3	2.0	.0	41.0
S	13.1	2.8	1.2	.5	7.8	.0	.7	23.3	4.3	.7	21.2	.0	1.6	.0	49.0
SW	3.5	1.4	.5	.0	14.5	.5	.5	20.1	1.8	.0	13.1	.5	1.9	.0	62.7
W	1.6	.0	1.7	.0	13.3	.3	1.9	18.5	2.6	.0	4.3	.3	1.4	.0	72.8
NW	1.5	.5	1.2	.0	8.8	.0	3.2	15.2	3.2	.0	7.5	1.0	.0	.1	73.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.1	.0	.0	.0	.0	.0	.0	7.1	.0	.0	21.4	.0	14.3	.0	57.1
TOT PCT	4.2	1.0	1.9	.2	12.3	.4	1.9	21.0	2.2	.1	12.3	.4	1.3	.1	62.6
TOT OBS:	1436														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0000	3.2	1.1	2.1	.0	11.4	.8	1.9	20.2	2.4	.5	8.8	.0	.8	.0	67.6
0600	3.9	.9	2.4	.6	12.0	.3	.9	20.1	3.6	.0	10.5	.3	1.2	.0	64.4
1200	5.2	.7	2.0	.2	11.9	.2	3.0	21.8	1.7	.0	12.2	.5	1.5	.7	62.0
1800	4.5	1.5	.9	.0	13.5	.3	1.8	21.3	1.2	.0	18.6	.9	1.5	.0	56.5
TOT PCT	4.2	1.0	1.9	.2	12.2	.4	1.9	20.9	2.2	.1	12.4	.4	1.2	.1	62.7
TOT OBS:	1446														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	3.1	6.9	3.7	.6	.2		14.7	18.2	16.7	12.1	14.1	13.2	13.9	15.8	15.9	11.7	
NE	.1	2.4	9.5	2.3	.9	.0		11.2	18.2	12.1	9.5	10.3	8.5	12.8	6.9	12.3	11.4	
E	.3	1.9	4.2	1.2	.4	.1		8.0	16.6	6.8	6.3	7.5	9.7	8.9	7.4	9.3	8.3	
SE	.2	1.1	2.9	1.2	.5	.0		6.0	17.6	4.4	8.3	6.2	2.9	6.5	10.7	6.3	3.1	
S	.2	2.6	4.0	2.6	.6	.1		10.2	18.1	9.8	8.3	8.3	6.2	11.2	10.9	13.1	9.6	
SW	.2	3.3	6.5	4.1	1.0	.2		15.3	18.9	15.1	15.0	14.3	21.2	13.6	19.2	14.2	17.6	
W	.2	2.8	8.8	5.3	2.5	.2		19.8	20.8	20.5	22.1	22.5	22.1	17.6	15.6	16.9	26.5	
NW	.0	3.2	6.3	3.6	.5	.1		13.8	18.0	13.9	17.5	15.2	15.0	14.2	13.4	10.9	11.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.0							1.0	.0	.7	1.0	1.5	1.2	1.3	.0	1.1	.0	
TOT OBS	38	310	484	366	109	15	1526		18.4	301	103	271	85	308	112	263	81	
TOT PCT	2.5	20.3	49.1	24.0	7.1	1.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.0	5.6	6.1	1.6	.3		14.7	18.2	15.5	13.9	14.4	14.9	
NE	.8	4.2	4.7	1.4	.1		11.2	18.2	11.4	9.9	11.3	12.1	
E	.9	3.4	2.8	.7	.2		8.0	16.6	6.7	6.0	8.5	9.1	
SE	.7	2.8	1.6	.8	.2		6.0	17.6	5.4	5.4	7.6	5.5	
S	1.2	3.8	3.7	1.1	.4		10.2	18.1	9.4	7.8	11.1	12.3	
SW	1.2	5.7	5.6	2.3	.4		15.3	18.9	15.1	15.9	15.1	15.0	
W	.8	7.2	7.3	3.6	.9		19.8	20.8	20.9	22.4	17.1	19.2	
NW	.8	6.0	4.9	1.8	.3		13.8	18.0	14.8	15.2	14.0	11.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.0						1.0	.0	.7	1.4	1.0	.9	
TOT OBS	128	590	560	205	43	1526		18.4	404	358	420	344	
TOT PCT	8.4	38.7	36.7	13.4	2.8		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.7	2.2	20.0	45.5	24.3	5.9	1.2	18.3	100.0	404
06009	1.4	.8	20.7	47.8	22.9	5.6	.8	17.9	100.0	358
12015	1.0	1.4	23.3	42.1	23.3	8.3	.5	18.2	100.0	420
18021	.9	1.5	16.6	45.3	25.6	8.7	1.5	19.5	100.0	344
TOT	15	23	310	688	366	109	15	18.4		1526
PCT	1.0	1.5	20.3	45.1	24.0	7.1	1.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	.8	2.9	8.0		6.1
NE	1.3	.8	2.1	6.4		6.4
E	.8	.3	1.4	5.8		6.9
SE	.6	.1	.7	4.9		7.0
S	1.1	.4	1.3	8.1		6.9
SW	1.7	1.6	3.4	8.6		6.3
W	4.3	2.2	5.6	8.3		5.5
NW	2.8	1.3	2.7	6.2		5.6
VAR	.0	.0	.0	.0		.0
CALM	.6	.1	.0	.4		3.4
TOT OBS	174	86	223	632	1115	6.1
TOT PCT	15.6	7.7	20.0	56.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3999	4999	6499	7999			
1.5	.0	.5	1.9	3.1	2.6	.4	.0	.1	.1	3.9		
1.0	.0	.4	1.1	2.1	1.8	.6	*	.4	.2	3.0		
1.2	.0	.4	.8	1.5	1.4	.3	.1	.3	.2	2.0		
1.3	.0	.3	.8	1.2	.7	.2	.2	.1	.2	1.4		
2.4	.1	.8	.7	2.0	1.5	.3	.3	.1	.2	2.3		
1.1	.3	.6	1.2	3.8	2.9	.6	*	.1	*	4.6		
1.4	.0	.6	1.4	4.5	3.8	.6	.3	.4	.2	7.3		
.7	.2	.2	1.3	2.7	2.8	.3	.0	.2	.1	4.6		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.2	.0	.1	.0	.0	.1	.0	.0	.0	.0	.7		
122	7	43	103	232	195	37	11	19	13	333	1115	
10.9	.6	3.9	9.2	20.8	17.5	3.3	1.0	1.7	1.2	29.9	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.8	2.3	2.7	2.8	2.9	2.9	2.9	2.9
>5000	1.1	3.2	3.7	3.8	3.9	3.9	3.9	3.9
>3500	2.7	6.2	7.0	7.1	7.2	7.2	7.2	7.2
>2000	10.3	21.6	23.9	24.1	24.4	24.5	24.5	24.5
>1000	16.6	37.4	42.9	44.4	44.8	45.1	45.3	45.3
>600	18.9	42.8	50.1	52.4	53.4	54.0	54.4	54.4
>300	19.2	44.0	52.5	55.1	56.5	57.7	58.3	58.3
>150	19.2	44.2	52.8	55.6	57.0	58.2	58.9	58.9
>0	19.2	44.3	53.8	57.5	60.8	64.3	69.5	69.7
TOTAL	213	490	596	697	673	712	769	772

TOTAL NUMBER OF OBS: 1107

PCT FREQ NH <5/8: 30.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	10.4	4.1	6.4	4.8	4.3	4.8	7.3	7.1	41.0	9.9
										1177

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.2	.5	.2	.3	.7	.4	.2	.0	.0	2.0	
	NO PCP	.6	.8	.7	.7	1.4	1.1	.3	.3	.0	.2	6.2	
	TOT %	.8	1.0	1.2	.8	1.7	1.3	.7	.5	.0	.2	8.2	
1/2<1	PCP	.2	.1	.2	.1	.2	.7	.3	.2	.0	.0	1.6	
	NO PCP	.1	.3	.3	.1	.3	.3	.1	.3	.0	.0	1.9	
	TOT %	.3	.4	.5	.3	.6	.4	.5	.5	.0	.0	3.5	
1<2	PCP	.4	.1	.3	.3	.2	.4	.2	.1	.0	.0	2.2	
	NO PCP	.3	.5	.3	.1	.3	.7	.2	.1	.0	.0	1.9	
	TOT %	.7	.7	.6	.4	.6	.6	.4	.2	.0	.0	4.1	
2<5	PCP	.7	.6	.9	.9	.8	.6	.8	.3	.0	.1	5.6	
	NO PCP	.7	.8	.3	.5	.5	.7	.5	.9	.0	.0	4.8	
	TOT %	1.3	1.4	1.2	1.3	1.3	1.4	1.2	1.3	.0	.1	10.4	
5<10	PCP	1.1	.9	.7	.8	.7	1.6	1.9	1.3	.0	.0	9.1	
	NO PCP	4.3	3.6	2.1	1.4	2.2	4.8	7.3	4.7	.0	.3	30.7	
	TOT %	5.4	4.5	2.8	2.2	2.9	6.4	9.2	6.0	.0	.3	39.8	
10+	PCP	.3	*	.0	*	.2	.1	.1	*	.0	.0	.8	
	NO PCP	4.9	3.5	2.1	1.1	2.9	4.7	7.9	5.6	.0	.4	33.1	
	TOT %	5.2	3.5	2.1	1.1	3.1	4.8	8.0	5.6	.0	.4	33.9	
TOT OBS													1437
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	.3	
	4-10	.4	.3	.6	.2	.3	.2	.2	.3	.0	.0	2.5	
	11-21	.4	.5	.3	.3	.4	.3	.3	.1	.0	.0	2.5	
	22+	.1	.1	.3	.2	1.0	.7	.2	.1	.0	.0	2.8	
	TOT %	.9	.9	1.2	.8	1.7	1.3	.7	.5	.0	.2	6.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.1	.0	.1	.2	.1	.1	.0	.0	.7	
	11-21	.1	.2	.3	.1	.2	.1	.1	.1	.0	.0	1.3	
	22+	.1	.1	.1	.2	.3	.2	.2	.3	.0	.0	1.5	
	TOT %	.4	.4	.5	.3	.6	.5	.4	.5	.0	.0	3.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.2	.0	.0	.2	.1	.0	.1	.0	.0	.5	
	11-21	.3	.2	.4	.2	.2	.3	.2	.2	.0	.0	1.9	
	22+	.3	.3	.2	.2	.3	.2	.2	.3	.0	.0	1.5	
	TOT %	.7	.6	.5	.4	.6	.6	.4	.2	.0	.0	4.0	
2<5	0-3	.1	*	.1	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.3	.3	.1	.1	.2	.2	.3	.3	.0	.0	1.6	
	11-21	.5	.5	.7	.8	.6	.5	.4	.6	.0	.0	4.6	
	22+	.5	.6	.4	.4	.4	.7	.5	.4	.0	.0	3.9	
	TOT %	1.4	1.4	1.2	1.3	1.2	1.4	1.2	1.2	.0	.1	10.3	
5<10	0-3	.1	*	.1	.2	.1	*	.0	.0	.0	.3	.7	
	4-10	.8	.7	.5	.3	.7	.9	1.1	.0	.0	.0	5.8	
	11-21	2.4	2.3	1.8	.9	1.5	2.6	3.9	2.6	.0	.0	17.9	
	22+	2.2	1.4	.5	.8	.7	2.7	4.2	2.1	.0	.0	14.6	
	TOT %	5.5	4.4	2.7	2.2	2.9	6.2	9.0	5.8	.0	.3	39.0	
10+	0-3	.1	*	.2	.0	.1	.1	.2	*	.0	.4	1.2	
	4-10	1.4	.7	.8	.5	1.3	1.7	1.3	1.4	.0	.0	9.0	
	11-21	3.1	2.0	.8	.6	1.2	2.6	3.9	2.8	.0	.0	16.9	
	22+	1.3	.8	.3	*	.7	.9	2.5	1.4	.0	.0	8.0	
	TOT %	5.8	3.5	2.0	1.1	3.3	5.4	7.9	5.7	.0	.4	35.1	
TOT OBS													1484
TOT PCT													100.0

MARCH

PERIOD: (PRIMARY) 1949-1971
(OVER-ALL) 1879-1971AREA 0004 SE NEWFOUNDLAND COAST
46.0N 51.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00003	10.8	.7	2.9	7.9	16.2	15.2	4.7	.7	2.2	1.1	62.5	37.5	277
06009	11.2	.0	3.4	8.2	23.2	18.4	1.9	.4	.7	.7	68.2	31.8	267
12015	7.4	1.0	4.3	9.0	26.1	19.4	3.3	1.0	1.7	1.3	74.6	25.4	299
18021	13.6	.7	4.4	10.8	16.6	15.9	3.1	1.7	2.0	1.4	70.2	29.8	295
TOT	122	7	43	103	234	196	37	11	19	13	785	303	1138
PCT	10.7	.6	3.8	9.1	20.6	17.2	3.3	1.0	1.7	1.1	69.0	31.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	6.9	3.1	4.1	10.0	40.7	35.3	391
06009	7.2	3.8	3.5	9.9	40.9	34.8	345
12015	6.5	3.6	4.3	10.1	38.5	37.0	416
18021	12.3	3.5	4.1	11.1	35.4	33.6	342
TOT	121	52	60	153	581	527	1494
PCT	8.1	3.5	4.0	10.2	38.9	35.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <3/8 AND 3+	TOTAL OBS
00003	11.2	16.4	29.4	34.9	35.7	269
06009	11.3	15.6	30.7	39.7	29.6	257
12015	7.2	15.9	33.4	42.4	24.1	290
18021	13.7	21.6	39.5	32.6	27.8	291
TOT	120	193	370	414	323	1107
PCT	10.8	17.4	33.4	37.4	29.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.2	.0	.0	.1	.0	.6	1.9	24	2.8
35/39	.0	.0	.1	.0	.5	2.0	4.5	12.6	167	19.7
30/34	.0	.0	.1	.0	1.7	7.4	15.4	28.4	458	54.0
25/29	.0	.0	.0	.4	2.2	4.4	5.0	4.8	142	16.7
20/24	.0	.0	.0	.0	.7	2.1	1.9	1.2	50	5.9
15/19	.0	.0	.0	.0	.0	.1	.2	.5	7	.8
TOTAL	0	2	2	11	44	136	234	419	848	100.0
PCT	.0	.2	.2	1.3	5.2	16.0	27.6	49.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
40/44	.1	.3	.4	.3	.9	.6	.2	.1	.0	.0
35/39	2.0	3.4	2.5	1.9	3.5	3.4	1.3	1.7	.0	.1
30/34	7.8	5.8	3.7	2.9	5.8	10.8	10.1	6.5	.0	.6
25/29	2.7	1.1	.8	.9	.7	1.7	6.3	2.7	.0	.0
20/24	.8	.4	.0	.0	.1	.1	2.4	2.1	.0	.0
15/19	.5	.0	.0	.0	.0	.0	.1	.2	.0	.0
TOTAL	13.9	10.9	7.4	6.0	11.0	16.5	20.3	13.4	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	41	40	38	32	22	15	13	31.0	398
06009	42	40	37	32	23	20	18	30.9	355
12015	44	40	38	32	27	18	10	31.1	414
18021	44	43	39	33	23	19	16	32.4	336
TOT	44	41	38	32	23	18	10	31.3	1503

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.9	5.8	17.5	28.3	47.5	87	223		
06009	.0	.5	5.8	13.5	26.9	33.4	89	208		
12015	.0	3.0	4.7	17.6	27.0	47.6	87	233		
18021	.0	2.6	4.7	15.3	28.4	48.9	87	190		
TOT	0	15	45	137	236	421	88	854		

PERIOD: (PRIMARY) 1949-1971
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MARCH

AREA 0004 SE NEWFOUNDLAND COAST
46.8N 51.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	W FOG	W0 FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	24	.5	1.5
7/8	.0	.0	.0	.0	.0	.0	.3	1.9	.2	27	.8	1.4
6	.0	.0	.0	.0	.0	.1	1.1	.8	.0	24	.7	1.4
5	.0	.0	.0	.0	.0	.1	2.1	1.8	.0	47	1.0	3.0
4	.0	.0	.0	.0	.0	.4	3.7	.8	.0	58	1.2	3.7
3	.0	.0	.0	.0	.0	.7	5.7	.8	.0	84	1.4	5.7
2	.0	.0	.0	.0	.1	2.4	5.0	.5	.0	93	1.1	6.9
1	.0	.0	.0	.0	.1	5.3	5.4	.3	.0	132	.9	10.2
0	.0	.0	.0	.0	.2	7.7	4.2	.4	.0	142	1.7	10.3
-1	.0	.0	.0	.0	.8	5.1	2.6	.0	.0	101	.9	7.6
-2	.0	.0	.0	.0	1.9	4.4	1.3	.2	.0	91	.6	7.1
-3	.0	.0	.0	.0	3.2	2.4	.5	.1	.0	74	.3	6.0
-4	.0	.0	.0	.0	3.5	2.4	.4	.1	.0	75	.4	5.9
-5	.0	.0	.0	.8	2.3	1.4	.5	.0	.0	59	.4	4.6
-6	.0	.0	.0	.7	1.0	.8	.2	.1	.0	27	.2	2.1
-7/-8	.0	.0	.0	2.4	1.8	.3	.5	.1	.0	60	.3	4.8
-9/-10	.0	.0	.3	1.6	.2	.7	.0	.1	.0	27	.1	2.2
-11/-13	.0	.0	1.0	.7	.3	.2	.2	.0	.0	28	.0	2.4
-14/-16	.0	.2	.1	.2	.0	.1	.0	.0	.0	6	.0	.5
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-20/-22	.1	.0	.0	.1	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	1	3	16	76	181	390	398	105	13	1185	148	1037
PCT	.1	.3	1.4	6.4	15.3	32.9	33.6	8.9	1.3	100.0	12.5	87.5

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6	.1	.5	.2	.0	.0	.0	.8
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	.7	1.1	.0	.0	.0	1.8
3-4	.0	1.1	2.0	.2	.0	.0	3.2	.0	.5	1.5	.2	.0	.0	2.2
5-6	.0	.0	1.9	.2	.0	.0	2.1	.0	.0	1.4	.4	.0	.0	1.9
7	.0	.0	1.8	1.1	.0	.0	2.9	.0	.2	.9	.4	.0	.0	1.6
8-9	.0	.0	.4	.2	.0	.0	.6	.0	.2	.0	.1	.2	.0	.3
10-11	.0	.0	.4	.7	.0	.0	1.1	.0	.0	.1	.4	.0	.0	.5
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.4	.3	.0	.0	.7
13-16	.0	.0	.0	.2	.4	.0	.6	.0	.0	.0	.4	1.4	.0	1.8
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.4	6.4	2.9	.4	.0	12.3	.1	1.9	5.7	2.3	1.6	.0	11.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.2	.4	.0	.0	.0	.0	.7
1-2	.7	.8	.4	.0	.0	.0	1.9	.0	.6	.9	.0	.0	.0	1.4
3-4	.0	.4	1.8	.5	.0	.0	2.8	.0	.0	1.1	.2	.0	.0	1.3
5-6	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.8	.2	.0	.0	.9	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.4	.4	.3	.0	1.2
10-11	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.2	.6	.0	.8
12	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.2	.0	.0	.4	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.7	4.9	1.3	.8	.2	9.6	.2	1.0	3.3	1.3	.8	.0	6.7

PERIOD: (OVER-ALL) 1963-1971

MARCH

AREA 0004 SE NEWFOUNDLAND COAST
46.8N 51.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.9	1.1	.0	.0	.0	2.0	.0	1.3	.6	.0	.0	.0	1.8
3-4	.0	.0	.9	.4	.0	.0	1.4	.0	1.3	3.1	.5	.0	.0	4.9
5-6	.0	.2	.9	.2	.0	.0	1.3	.2	.2	2.6	.6	.4	.0	4.0
7	.0	.0	.4	.4	.0	.0	.8	.0	.1	1.3	.9	.0	.0	2.3
8-9	.0	.0	.4	.2	.2	.0	.8	.0	.0	.0	.9	.2	.0	1.2
10-11	.0	.0	.0	.6	.2	.4	1.3	.0	.0	.2	1.7	.2	.0	2.1
12	.0	.0	.0	.2	.2	.0	.4	.0	.0	.4	.2	.0	.0	.7
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.1	1.2	.1	.1	1.3
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.2	.5	.0	.7
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.4	1.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	3.7	2.0	1.1	.4	8.6	.2	3.1	8.3	6.5	1.9	.5	20.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.0	.0	.0	.0	.0	.2	.1	.2	.0	.0	.0	.0	.3	
1-2	.0	1.2	.6	.0	.0	.0	1.8	.0	2.1	.4	.0	.0	.0	2.5	
3-4	.0	.4	1.9	.6	.0	.0	3.0	.0	.2	1.6	.5	.0	.0	2.3	
5-6	.0	.0	2.4	.6	.0	.0	3.0	.0	.0	1.2	.7	.0	.0	1.9	
7	.0	.2	1.2	.4	.2	.0	1.9	.0	.0	.1	.1	.0	.0	.2	
8-9	.0	.0	.2	.6	.0	.0	.8	.0	.0	.7	.8	.0	.0	1.5	
10-11	.0	.0	.2	.6	.0	.0	.8	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.2	.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.2	.6	1.3	.2	2.2	.0	.0	.0	.7	.4	.0	1.2	
17-19	.0	.0	.0	.2	.6	.0	.8	.0	.0	.0	.0	.0	.2	.2	
20-22	.0	.0	.0	.2	.6	.2	1.0	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.4	1.1	.0	1.6	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.8	6.7	4.4	4.3	.6	18.0	.1	2.3	4.2	2.8	.7	.2	10.5	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.7	2.4	.2	.0	.0	.0	5.3	
1-2	.9	8.6	5.1	.0	.0	.0	14.6	
3-4	.0	4.0	14.0	3.1	.0	.0	21.1	
5-6	.2	.4	12.4	2.7	.4	.0	16.2	
7	.0	.4	6.9	3.5	.2	.0	11.1	
8-9	.0	.0	2.4	3.3	.9	.0	6.7	
10-11	.0	.0	1.1	4.2	1.3	.4	7.1	
12	.0	.0	.9	1.6	.9	.0	3.3	
13-16	.0	.0	.2	3.5	3.8	.4	8.0	
17-19	.0	.0	.0	.7	1.6	.2	2.4	
20-22	.0	.0	.0	.4	1.1	.7	2.2	
23-25	.0	.0	.0	.4	1.1	.0	1.6	
26-32	.0	.0	.0	.0	.2	.2	.4	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.8	16.0	43.2	23.5	11.5	2.0	100.0	451

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	4.6	7.0	7.0	4.0	1.9	.3	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	240	5
6-7	.0	.6	1.8	5.8	6.7	3.9	3.5	1.6	1.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	241	8
8-9	.0	.1	.8	1.5	3.3	4.0	3.3	1.4	3.0	.6	1.1	.1	.1	.0	.0	.0	.0	.0	.0	180	10
10-11	.0	.3	.5	.4	1.1	.8	.9	1.0	1.5	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	68	10
12-13	.0	.0	.9	.4	.1	.2	.1	.3	.5	.1	.4	.1	.1	.0	.0	.0	.0	.0	.0	31	11
>13	.0	.0	.0	.0	.1	.2	.9	.3	.6	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	22	12
INDET	1.6	1.4	1.8	2.8	3.8	1.3	.8	.5	1.6	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	150	7
TOTAL	20	66	119	167	177	114	91	48	81	20	19	7	3	0	0	0	0	0	0	932	8
PCT	2.1	7.1	12.8	17.9	19.0	12.2	9.8	5.2	8.7	2.1	2.0	.8	.3	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1879-1971AREA 0004 SE NEWFOUNDLAND COAST
46.0N 51.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	2.4	.5	.6	1.1	9.6	.0	.0	13.4	1.6	.0	15.3	1.0	.6	.0	67.9
NE	6.3	.5	5.5	2.1	8.7	.0	.5	22.4	2.0	.0	24.9	1.2	.1	.0	49.3
E	9.0	.0	6.5	.9	7.2	.0	.0	22.7	4.3	.0	37.6	.0	.9	.0	34.5
SE	14.6	1.4	8.9	.9	8.2	.0	.0	32.1	.5	.9	36.4	.9	2.1	.0	28.0
S	7.7	3.0	6.7	.0	3.0	.4	.0	20.3	1.4	.0	27.5	1.6	.8	.0	48.4
SW	4.3	1.0	2.1	.1	4.9	.1	.0	10.8	2.9	.0	22.7	1.2	1.5	.0	60.8
W	3.4	.6	1.1	.3	8.2	.0	.0	12.6	3.1	.0	11.7	1.9	.6	.0	70.1
NW	4.1	1.0	2.6	.0	10.3	.0	.0	16.9	2.3	.0	10.8	.5	.5	.0	69.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45.5	.0	.0	.0	54.5
TOT PCT	5.3	1.0	3.4	.6	7.4	.1	.1	16.6	2.3	.1	21.3	1.1	.8	.0	57.8
TOT OBS:	1665														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	4.8	.7	3.7	.7	6.9	.0	.0	14.9	1.8	.2	18.8	.2	.9	.0	63.4
06009	7.8	.6	3.9	.8	9.4	.0	.0	20.8	1.7	.0	23.5	1.1	.0	.0	52.9
12015	4.8	1.3	3.7	.2	7.9	.0	.2	17.4	3.1	.0	20.0	2.2	1.3	.0	55.9
18021	4.3	1.1	2.1	.7	5.5	.2	.0	13.5	2.5	.0	23.3	.9	.9	.0	58.9
TOT PCT TOT OBS:	5.3 1690	.9	3.3	.6	7.3	.1	.1	16.4	2.3	.1	21.3	1.1	.8	.0	58.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.3	3.5	7.2	3.4	1.5	.0		16.0	18.3		13.5	16.9	14.5	12.7	18.8	16.3	17.0	17.9
NF	.2	3.8	5.3	1.8	.2	.0		11.4	14.8		12.9	8.8	12.0	8.7	12.3	11.3	10.0	11.1
E	.4	2.3	3.0	1.2	.1	.0		5.9	14.3		5.8	8.6	7.2	7.2	5.2	11.5	7.2	8.3
SE	.3	1.8	3.3	1.1	.0	.0		6.5	14.5		7.1	6.6	5.3	7.2	7.0	7.6	6.0	6.2
S	.2	3.0	5.3	2.3	.4	.0		11.2	16.2		14.1	9.6	9.7	11.8	10.0	10.2	10.8	12.0
SW	.3	5.5	7.5	4.2	.6	.1		18.1	16.5		18.2	17.4	18.0	16.8	17.5	16.3	19.2	20.4
W	.6	4.9	8.1	2.5	.6	*		16.8	15.3		16.9	20.5	22.0	17.8	15.6	9.6	15.8	13.9
NW	.1	3.1	4.8	3.0	.6	*		11.6	17.5		10.1	11.6	8.6	16.8	11.6	15.4	13.0	10.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0		1.3	.0	2.6	1.0	2.0	1.7	1.1	.0
TOT OBS	69	495	787	344	73	2	1770		16.0		373	99	272	104	353	115	373	81
TOT PCT	3.9	28.0	44.5	19.4	4.1	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	1.4	6.1	5.6	2.6	.4		16.0	18.3	14.2	14.0	18.2	17.1
NE	1.3	5.7	3.5	.7	.1		11.4	14.8	12.1	11.1	12.0	10.2
E	1.3	3.2	1.9	.5	.1		6.9	14.3	6.4	7.2	6.8	7.4
SE	.7	3.8	1.5	.5	.0		6.5	14.5	7.0	5.9	7.2	6.0
S	1.2	5.1	3.8	1.0	.1		11.2	16.2	12.2	10.3	10.0	11.0
SW	2.3	7.5	6.0	2.3	.1		18.1	16.5	18.1	17.7	17.2	19.4
W	1.8	8.9	4.5	1.4	.3		16.8	15.3	17.6	20.8	14.1	15.5
NW	1.2	4.7	3.8	1.6	.2		11.6	17.5	10.4	10.9	12.6	12.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.1	2.1	1.9	.9
TOT OBS	225	798	541	185	21	1770		16.0	472	376	468	454
TOT PCT	12.7	45.1	30.6	10.5	1.2		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1979-1971

APRIL

AREA 0004 SE NEWFOUNDLAND COAST
46.8N 51.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	1.1	2.3	32.2	46.4	15.3	2.5	.2	14.8	100.0	472
06009	2.1	2.7	26.1	44.1	22.1	2.9	.0	16.0	100.0	376
12015	1.9	3.0	26.9	43.4	19.9	4.9	.0	16.3	100.0	468
18021	.9	1.8	26.2	43.8	21.1	5.9	.2	16.8	100.0	454
TOT	26	43	495	787	344	73	2	16.0		1770
PCT	1.5	2.4	28.0	44.5	19.4	4.1	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL PCT	MEAN CLOUD COVER
N	2.2	1.0	2.5	10.0		6.4
NE	.9	.4	1.2	7.9		7.0
E	.5	.1	1.0	5.6		7.1
SE	.4	.1	.4	5.6		7.3
S	1.7	.6	1.3	7.5		6.5
SW	3.8	.9	3.3	10.3		5.9
W	4.1	1.8	2.8	7.9		5.4
NW	1.8	1.1	2.2	7.3		6.2
VAR	.0	.0	.0	.0		.0
CALM	.5	.1	.1	.8		5.1
TOT OBS	214	81	199	842	1336	6.3
TOT PCT	16.0	6.1	14.9	63.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	1.9	.2	.8	2.4	3.5	2.1	.4	.4	.2	*	3.8	
NE	2.2	.3	.8	1.7	1.8	1.0	.1	.0	.2	.3	2.1	
E	2.7	*	.7	.6	.7	.7	.0	.1	.2	.1	1.3	
SE	2.5	.1	.2	.9	1.0	.8	.2	.1	*	*	.8	
S	3.0	.2	.1	1.2	1.5	.7	.5	.1	.4	.2	3.3	
SW	2.7	.4	.8	2.1	2.6	2.1	.7	.2	.3	.1	6.3	
W	1.6	.0	.6	1.1	2.4	2.3	.5	.1	.2	.4	7.3	
NW	1.0	.0	.3	2.0	2.8	1.9	.6	.2	.2	*	3.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7	.0	.0	.0	.0	.1	.1	.0	.0	.0	.6	
TOT OBS	245	18	57	158	217	153	42	16	23	18	387	1336
TOT PCT	18.3	1.3	4.3	11.8	16.2	11.6	3.1	1.2	1.7	1.3	29.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	* NR >10	* OR >5	* OR >2	* NR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* NR >6500	1.6	2.5	2.8	3.0	3.1	3.1	3.1	3.1
* NR >5000	2.2	3.5	4.0	4.2	4.2	4.2	4.2	4.2
* NR >3500	3.6	6.3	7.0	7.1	7.2	7.2	7.3	7.3
* NR >2000	7.4	16.4	18.2	18.5	18.6	18.7	18.8	18.8
* NR >1000	12.4	28.4	33.0	34.4	34.6	34.9	35.1	35.1
* NR >600	15.9	36.3	43.3	45.7	46.2	46.6	46.9	46.9
* NR >300	16.1	37.6	45.6	49.2	50.3	50.9	51.2	51.2
* NR >150	16.1	37.8	45.9	50.0	51.6	52.2	52.6	52.6
* NR >0	16.1	37.8	46.7	51.8	55.0	59.9	66.5	71.0
TOTAL	216	508	627	696	738	805	920	954

TOTAL NUMBER OF OBS: 1343

PCT FREQ NH <5/8: 29.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.1	4.2	3.9	3.2	3.1	2.7	5.3	6.2	41.8	16.5	1463

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1879-1971

APRIL

AREA 0004 SE NEWFOUNDLAND COAST
46.8N 51.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	.4	.5	.3	.9	.5	.2	.3	.0	.0	3.5	
	NO PCP	1.4	1.5	1.5	1.7	1.9	2.0	1.0	.5	.0	.4	11.9	
	TOT %	1.8	1.9	2.0	2.0	2.8	2.4	1.1	.9	.0	.4	15.4	
1/2<1	PCP	.7	.5	.1	.1	.2	.1	.1	.1	.0	.0	1.5	
	NO PCP	.7	.4	.3	.4	.4	.2	.2	.3	.0	.0	2.3	
	TOT %	.4	.9	.4	.5	.7	.3	.3	.4	.0	.0	3.9	
1<2	PCP	.4	.4	.1	.2	.3	.4	.4	.3	.0	.0	2.5	
	NO PCP	.5	.5	.2	.2	.5	.4	.4	.2	.0	.1	3.3	
	TOT %	.9	.8	.4	.3	.8	1.1	.8	.5	.0	.1	5.8	
2<5	PCP	.5	.7	.3	.7	.2	.4	.5	.3	.0	.0	3.7	
	NO PCP	1.0	.9	.8	.5	.7	1.4	.8	.7	.0	.1	7.0	
	TOT %	1.5	1.7	1.1	1.2	.9	1.9	1.3	1.0	.0	.1	10.7	
5<10	PCP	.7	.5	.5	.8	.6	.5	.8	.9	.0	.0	5.2	
	NO PCP	5.3	2.6	1.2	1.0	2.4	5.9	4.3	3.4	.0	.3	26.4	
	TOT %	6.0	3.0	1.7	1.8	3.0	6.4	5.1	4.3	.0	.3	31.6	
10+	PCP	.0	.1	.0	.0	.0	.1	.2	.1	.0	.0	.4	
	NO PCP	5.7	2.9	1.1	.8	2.8	6.1	8.1	4.6	.0	.4	32.3	
	TOT %	5.7	2.9	1.1	.8	2.8	6.1	8.2	4.7	.0	.4	32.7	
TOT OBS													1661
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	*	*	*	.1	.0	.0	.4	.8	
	4-10	.5	.7	.7	.7	.4	.7	.4	.2	.0		4.3	
	11-21	.7	1.1	.9	1.2	1.6	1.0	.6	.4	.0		7.4	
	22+	.5	.1	.3	.1	.8	.7	.0	.3	.0		2.8	
	TOT %	1.8	2.0	2.0	2.0	2.7	2.4	1.1	.8	.0	.4	15.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	4-10	.1	.2	.2	.2	.2	*	.1	.1	.0		1.1	
	11-21	.1	.2	*	.3	.3	.1	.2	.1	.0		1.4	
	22+	.2	.4	.1	.1	.2	.1	.0	.1	.0		1.2	
	TOT %	.4	.8	.4	.5	.7	.3	.3	.4	.0	.0	3.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	
	4-10	.3	.1	.1	.1	.1	.3	.4	.1	.0		1.4	
	11-21	.4	.4	.1	*	.4	.5	.3	.2	.0		2.2	
	22+	.2	.3	.2	.2	.3	.3	.1	.2	.0		1.9	
	TOT %	.9	.8	.4	.3	.8	1.1	.8	.5	.0	.1	5.6	
2<5	0-3	.1	.1	.0	.0	.1	.1	.1	.0	.0	.1	.5	
	4-10	.1	.4	.4	.1	.1	.5	.2	.1	.0		1.8	
	11-21	.8	.9	.4	.6	.3	.8	.5	.4	.0		4.7	
	22+	.5	.3	.4	.5	.4	.6	.5	.5	.0		3.6	
	TOT %	1.5	1.7	1.1	1.2	.9	1.9	1.3	1.0	.0	.1	10.6	
5<10	0-3	.1	.1	.2	.2	*	.1	.0	.0	.0	.3	.9	
	4-10	.8	.9	.4	.6	1.1	1.5	1.2	1.2	.0		7.7	
	11-21	2.7	1.4	1.0	.8	1.2	2.7	2.6	1.6	.0		14.0	
	22+	2.3	.6	.2	.2	.7	1.9	1.2	1.3	.0		8.5	
	TOT %	5.9	3.0	1.7	1.7	3.0	6.2	5.0	4.2	.0	.3	31.0	
10+	0-3	.2	.1	.1	.0	.0	.1	.4	.1	.0	.4	1.2	
	4-10	1.7	1.6	.6	.3	1.0	2.6	2.6	1.3	.0		11.6	
	11-21	2.7	1.3	.6	.5	1.5	2.5	4.0	2.2	.0		15.3	
	22+	1.2	.3	.1	.1	.4	1.1	1.3	1.1	.0		5.6	
	TOT %	5.7	3.2	1.4	.8	3.0	6.3	8.3	4.7	.0	.4	33.7	
TOT OBS													1711
TOT PCT													100.0

APRIL

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1879-1971

AREA 0004 SE NEWFOUNDLAND COAST
46.0N 51.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	190 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	17.6	.9	3.6	11.5	15.5	11.5	3.9	2.1	1.5	1.8	70.0	30.0	330
06009	23.4	1.7	4.5	5.9	17.6	11.7	3.4	.7	1.7	.7	71.4	28.6	290
12015	18.3	1.7	5.0	14.4	16.1	11.9	2.8	1.4	1.7	.8	74.2	25.8	360
18021	15.0	1.0	3.9	14.0	15.8	10.6	2.3	.5	1.8	1.8	66.8	33.2	386
TOT	250	18	58	161	221	156	42	16	23	18	963	403	1366
PCT	18.3	1.3	4.2	11.8	16.2	11.4	3.1	1.2	1.7	1.3	70.5	29.5	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	13.0	3.1	4.8	9.7	34.7	34.7	455
06009	17.0	5.9	7.3	9.7	26.5	33.5	370
12015	17.9	3.2	5.6	11.4	30.8	31.0	464
18021	13.6	3.1	4.9	12.1	30.6	35.6	447
TOT	266	65	97	187	536	585	1736
PCT	15.3	3.7	5.6	10.8	30.9	33.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	18.0	23.5	40.6	31.3	28.2	323
06009	24.3	32.4	45.1	28.9	26.1	284
12015	18.4	26.7	47.4	27.9	24.8	359
18021	14.9	22.0	43.8	26.3	30.0	377
TOT	249	347	594	382	367	1343
PCT	18.5	25.8	44.2	28.4	27.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
45/49	.0	.0	.0	.0	.1	.1	.3	.1	6	.6
40/44	.0	.0	.0	.0	.8	.9	1.6	3.7	68	7.1
35/39	.0	.0	.0	.2	1.0	4.5	11.1	27.1	423	44.0
30/34	.0	.0	.0	.4	1.7	4.1	13.3	23.9	417	43.3
25/29	.0	.0	.0	.1	.2	.3	2.3	1.8	45	4.7
20/24	.0	.0	.0	.0	.0	.0	.1	.1	2	.2
TOTAL	0	0	0	7	37	95	277	546	962	100.0
PCT	.0	.0	.0	.7	3.8	9.9	28.8	56.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
45/49	.1	.2	.0	.0	.1	.1	.0	.1	.0	.0
40/44	.2	.3	.8	.7	2.3	1.6	.9	.3	.0	.1
35/39	4.2	3.4	2.9	3.2	6.4	11.8	8.1	3.7	.0	.2
30/34	7.8	4.7	2.4	2.3	2.8	6.5	10.0	6.7	.0	.1
25/29	1.3	.4	.1	.0	.1	1.0	1.0	.9	.0	.0
20/24	.1	.0	.0	.0	.0	.0	.1	.1	.0	.0
TOTAL	13.8	9.0	6.2	6.2	11.7	21.0	20.0	11.7	.0	.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	45	43	40	34	29	26	21	34.0	468
06009	50	44	39	34	28	26	23	33.9	376
12015	49	45	40	34	28	23	21	34.3	460
18021	47	45	41	35	30	27	23	35.4	451
TOT	50	44	40	34	28	25	21	34.4	1755

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.6	3.6	7.5	26.9	60.5	90	253
06009	.0	.4	2.6	6.6	29.5	60.8	91	227
12015	.0	.4	2.1	12.8	29.4	55.3	89	235
18021	.0	.4	6.6	12.5	29.2	51.4	88	257
TOT	0	7	37	96	279	553	89	972

APRIL

PERIOD: (PRIMARY) 1952-1971
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46.8N 51.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.4	.3	.0	9	.2	.6
9/16	.0	.0	.0	.0	.5	.4	.1	.1	13	.1	1.0
7/5	.0	.0	.0	.4	2.0	1.0	.3	.0	44	.8	2.9
6	.0	.0	.0	1.2	2.3	.3	.2	.0	48	1.0	3.0
5	.0	.0	.0	2.3	3.8	.5	.1	.0	81	2.0	4.8
4	.0	.0	.2	4.3	2.8	.1	.0	.0	88	2.4	4.9
3	.0	.0	.6	6.2	2.7	.2	.0	.0	115	2.3	7.4
2	.0	.0	1.9	9.1	1.8	.1	.0	.0	134	3.3	9.5
1	.0	.0	3.0	7.9	.8	.2	.0	.0	142	3.0	8.9
0	.0	.3	5.5	6.4	1.1	.0	.0	.0	139	1.8	11.5
-1	.0	.3	4.0	3.6	.6	.0	.0	.0	102	1.8	6.7
-2	.0	.5	4.1	1.5	.4	.0	.1	.0	79	.7	5.9
-3	.0	.6	1.7	1.3	.3	.1	.0	.0	48	.6	3.4
-4	.1	1.3	1.3	.7	.1	.0	.0	.0	43	.8	2.8
-5	.1	.5	.6	.6	.3	.0	.0	.0	26	.4	1.8
-6	.1	.3	.3	.6	.1	.0	.0	.0	16	.1	1.3
-7/-8	.1	.3	.3	.4	.0	.0	.0	.0	14	.1	1.1
-9/-10	.2	.1	.3	.1	.0	.2	.0	.0	9	.0	.8
-11/-13	.1	.0	.0	.3	.0	.0	.0	.0	5	.3	.2
TOTAL	7		286		239		12		1195	258	937
PCT	.6	4.4	23.9	46.9	19.7	3.4	1.0	.1	100.0	21.6	78.4

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.0	.0	.0	.0	.0	.2	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	1.3	.3	.0	.0	.0	1.7	.0	1.4	.6	.0	.0	.0	2.0
3-4	.0	.3	1.3	.5	.0	.0	2.1	.0	.2	1.4	.0	.0	.0	1.7
5-6	.0	.5	1.2	.7	.3	.0	2.7	.0	.3	2.7	.8	.0	.0	3.9
7	.0	.0	1.1	1.5	.2	.0	2.8	.0	.0	1.7	.2	.0	.0	2.0
8-9	.0	.0	1.2	.5	.1	.0	1.9	.0	.0	.0	.8	.0	.0	.8
10-11	.0	.0	.0	.7	1.1	.0	1.9	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	1.0	.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.8	.2	.0	1.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.1	5.1	5.9	2.3	.0	15.7	.0	3.1	6.5	1.9	.0	.0	11.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.4	.1	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.9	.0	.0	.0	.0	.9	.0	.8	.2	.0	.0	.0	1.0
3-4	.0	.3	.7	.3	.0	.0	1.4	.0	.3	.5	.0	.0	.0	1.0
5-6	.0	.0	1.1	.2	.0	.0	1.3	.0	.6	.2	.0	.0	.0	.8
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.6	.2	.0	.0	.6
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	2.2	1.5	.2	.0	5.6	.0	1.4	2.0	1.0	.0	.0	4.3

PERIOD: (OVER-ALL) 1963-1971

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AREA 0004 SE NEWFOUNDLAND COAST
46.8N 51.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.3	.1	.0	.0	.0	.5	.1	.7	.0	.0	.0	.0	.0	.8
1-2	.0	.2	.5	.0	.0	.0	.7	.4	3.3	1.3	.0	.0	.0	.0	4.9
3-4	.0	.8	2.1	.7	.0	.0	3.6	.0	1.5	2.5	.5	.0	.0	.0	4.4
5-6	.0	.3	.9	.2	.0	.0	1.5	.0	.2	1.2	1.0	.4	.0	.0	2.8
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	1.1	.7	.2	.0	.0	2.0
8-9	.0	.2	.2	.7	.0	.0	1.1	.0	.0	.6	.8	.1	.0	.0	1.5
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.4	.4	.2	.0	.0	1.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.4
13-16	.0	.0	.0	.3	.5	.0	.9	.0	.0	.0	.6	.3	.0	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	4.2	2.3	.5	.0	9.0	.5	5.7	7.1	4.2	1.2	.2	18.8	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	.7	.2	.0	.0	.0	1.4	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	2.0	1.3	.0	.0	.0	3.3	.0	1.1	.6	.0	.0	.0	1.7	
3-4	.0	1.7	3.9	.3	.0	.0	5.9	.0	.2	2.5	.5	.0	.0	3.2	
5-6	.0	1.0	1.3	.3	.0	.0	2.5	.0	.0	1.5	1.1	.2	.0	2.8	
7	.0	.0	.3	.3	.0	.0	.6	.0	.0	1.2	1.6	.0	.0	2.8	
8-9	.0	.0	.8	.8	.3	.1	2.0	.0	.0	.4	.0	.0	.0	.5	
10-11	.0	.0	.2	.4	.0	.0	.6	.0	.0	.4	.6	.0	.0	1.1	
12	.0	.0	.0	.0	.1	.0	.1	.0	.2	.0	.5	.2	.0	.9	
13-16	.0	.0	.0	.8	.1	.0	.9	.0	.0	.2	1.2	.2	.0	1.6	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	5.4	8.0	2.9	.6	.1	17.5	.0	1.7	6.7	5.6	.9	.0	15.0	97.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	3.7	.6	.0	.0	.0	7.6	
1-2	.4	10.9	4.9	.0	.0	.0	16.2	
3-4	.0	5.5	14.8	2.9	.0	.0	23.2	
5-6	.0	2.3	10.5	4.5	1.0	.0	18.4	
7	.0	.0	6.6	4.3	.4	.0	11.3	
8-9	.0	.2	3.1	4.3	.6	.2	8.4	
10-11	.0	.0	1.0	3.5	1.4	.0	5.9	
12	.0	.2	.0	1.8	.6	.2	2.7	
13-16	.0	.0	.2	3.9	1.4	.0	5.5	
17-19	.0	.0	.0	.2	.4	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.7	22.9	41.8	29.4	5.9	.4	100.0	512

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	3.8	8.4	7.0	3.1	2.3	.8	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	271	5
6-7	.1	.4	4.6	6.5	5.2	4.7	3.7	1.3	1.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	291	7
8-9	.0	.3	1.7	3.4	2.8	4.1	2.6	2.0	2.4	.1	.1	.3	.0	.0	.0	.0	.0	.0	.0	202	8
10-11	.0	.1	.2	.4	.5	.7	1.3	1.0	.8	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	95	10
12-13	.0	.0	.6	.0	.1	.1	.0	.1	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	13	8
>13	.0	.0	.0	.2	.0	.1	.3	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	10
INDEX	1.9	2.4	2.7	4.1	2.4	1.5	1.3	.4	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	178	5
TOTAL	26	71	186	220	144	137	102	50	65	7	.4	7	1	0	0	0	0	0	0	1020	7
PCT	2.5	7.0	18.2	21.6	14.1	13.4	10.0	4.9	6.4	.7	.4	.7	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1943-1971
(OVER-ALL) 1877-1971

MAY

AREA 0004 SE NEWFOUNDLAND COAST
46.8N 51.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
N	4.2	1.6	4.0	.3	4.2	.0	.7	13.2	.8	.0	23.4	1.2	.2	.0	59.2
NE	7.3	1.3	4.9	.4	1.8	.0	.0	14.8	1.2	.1	31.5	1.4	.2	.4	50.4
E	5.9	1.3	5.3	.8	1.4	.0	.4	15.1	2.9	.3	41.7	1.3	1.5	.0	37.1
SE	7.9	.4	7.2	.5	1.0	.0	.0	17.0	1.4	.2	43.3	.5	.4	.0	37.1
S	8.6	.2	4.1	.0	.7	.0	.0	13.7	.8	.1	43.5	1.5	.6	.0	39.7
SW	4.9	.3	2.8	.0	.7	.0	.0	8.7	.6	.0	28.6	1.0	.7	.0	60.6
W	1.4	.5	1.6	.0	1.1	.0	.0	4.3	.6	.0	12.3	1.3	.6	.7	80.3
NW	2.2	2.1	2.7	.0	4.6	.0	.5	10.8	1.5	.0	16.9	1.7	.7	.0	68.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	4.0	.0	.0	.0	.0	4.0	.0	.0	56.0	1.0	2.0	.0	37.0
TOT PCT	5.2	.8	3.9	.2	1.6	.0	.1	11.4	1.0	.1	31.6	1.2	.7	.1	54.0
TOT OBS:	2675														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
0000	4.4	1.1	3.9	.1	1.6	.0	.3	10.7	.9	.1	30.9	.7	.7	.3	35.6
0600	7.5	.9	3.9	.4	2.2	.0	.2	15.0	.7	.2	31.6	1.1	.4	.0	51.0
1200	5.8	.1	4.3	.1	1.2	.0	.0	11.4	.8	.0	32.0	1.6	.6	.1	53.5
1800	3.6	.9	2.9	.1	1.6	.0	.1	8.8	1.5	.0	31.7	1.5	.8	.0	55.7
TOT PCT	5.2	.8	3.7	.2	1.6	.0	.1	11.2	1.0	.1	31.6	1.2	.7	.1	54.2
TOT OBS:	2753														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	2.8	4.5	2.3	.4	*		10.6	15.9		10.7	7.9	13.3	8.2	10.9	9.1	10.9	8.9
NE	.4	3.8	4.0	.9	.3	*		9.4	13.1		12.1	9.3	7.4	8.2	8.6	11.5	9.5	7.4
E	.7	4.2	2.9	.6	*	.0		8.4	11.1		8.5	8.2	7.9	9.3	7.8	9.1	8.7	8.7
SE	.5	3.3	4.1	.7	.1	.0		8.7	12.8		8.5	9.8	9.7	7.5	9.1	5.9	8.6	8.3
S	1.4	5.8	6.3	2.4	.2	.0		16.1	13.5		17.7	16.6	14.0	13.7	14.5	14.6	16.2	25.9
SW	.9	8.0	9.9	3.6	.7	.0		23.1	14.4		22.5	25.0	23.7	23.7	19.4	24.6	25.2	23.0
W	.5	3.6	5.1	2.1	.4	.0		11.9	15.0		10.9	14.3	12.9	15.0	14.0	12.7	10.1	8.0
NW	.3	2.7	3.2	1.7	.2	.0		8.1	15.0		7.0	7.4	9.3	6.5	9.4	11.0	6.6	7.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7							3.7	.0		2.7	1.5	1.9	5.9	6.3	1.5	4.3	2.4
TOT DBS	263	1011	1187	425	69	2	2952		13.5		556	196	431	153	634	205	611	166
TOT PCT	8.9	34.2	40.0	14.4	2.3	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	21
N	1.7	4.0	3.8	.9	.1			10.6	15.9		9.9	11.9	10.5	10.5	
NE	2.2	4.6	1.9	.5	.1			9.4	13.1		11.4	7.6	9.3	9.1	
E	2.2	4.6	1.4	.2	.0			8.4	11.1		8.4	8.3	8.2	8.7	
SE	1.8	4.5	2.0	.4	.0			8.7	12.8		8.9	9.2	8.3	8.5	
S	3.7	6.9	4.2	1.3	*			16.1	13.5		17.4	13.9	14.5	18.2	
SW	3.8	11.6	3.7	2.0	*			23.1	14.4		23.2	24.2	20.6	24.7	
W	1.9	5.4	3.7	1.0	*			11.9	15.0		11.2	13.4	13.7	9.6	
NW	1.3	3.5	2.6	.6	*			8.1	15.0		7.1	8.6	9.8	6.8	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	3.7							3.7	.0		2.4	2.9	5.1	3.9	
TOT DBS	659	1331	749	203	10	2952			13.5		752	584	839	777	
TOT PCT	22.3	45.1	25.4	6.9	.3			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1943-1971
(OVER-ALL) 1877-1971

MAY

AREA 0004 SE NEWFOUNDLAND COAST
46.8N 51.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	2.4	4.5	35.5	41.5	13.3	2.7	.1	13.5	100.0	752
0600	2.9	5.3	32.9	40.9	16.3	1.7	.0	13.7	100.0	984
1200	5.1	6.2	36.1	37.5	13.6	1.3	.1	12.7	100.0	839
1800	3.9	4.9	32.0	40.7	14.9	3.6	.0	14.1	100.0	777
TOT	108	155	1011	1182	425	69	2	13.5		2952
PCT	3.7	5.3	34.2	40.0	14.4	2.3	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	1.5	.3	1.9	8.5		6.8
NE	.6	.5	1.1	7.6		7.2
E	.6	.4	.8	6.5		7.1
SE	.8	.1	.8	7.3		7.1
S	1.9	1.1	1.7	9.8		6.5
SW	5.6	1.7	4.7	10.4		5.5
W	5.0	1.1	2.9	4.5		4.5
NW	2.0	.7	1.2	3.9		5.4
VAR	.0	.0	.0	.0		5.0
CALM	.6	.2	.5	1.7		5.8
TOT OBS	310	103	253	1008	1674	6.1
TOT PCT	18.5	6.2	15.1	60.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999	8000+	ANY HGT	OBS
N	2.3	.0	.4	1.6	2.7	1.9	.7	.0	.0	.2	2.5	
NE	2.0	.1	.5	1.4	1.8	1.4	.3	.1	.1	.3	1.9	
E	2.5	.1	.9	.7	1.1	1.0	.4	.0	.1	.2	1.2	
SE	3.4	.1	.1	1.0	1.3	.7	.4	.0	.1	.2	1.7	
S	4.7	.1	.3	1.0	1.5	1.1	.3	.1	.2	.8	4.4	
SW	4.9	.1	.4	1.6	2.1	1.6	.3	.2	.3	1.1	9.7	
W	1.3	.1	.2	.7	1.3	1.1	.4	.1	.0	.3	7.6	
NW	.0	.0	.1	1.0	1.4	.7	.4	.1	.0	.0	9.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3	.1	.0	.2	.1	.3	.0	.0	.0	.0	1.1	
TOT OBS	385	11	91	155	221	166	91	10	15	51	1674	
TOT PCT	23.0	.7	3.0	9.3	13.2	9.9	3.0	.6	.9	3.0	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.1	3.4	3.7	3.8	3.8	3.8	4.0	4.0
>5000	2.3	4.0	4.2	4.4	4.4	4.4	4.5	4.5
>3500	4.5	6.7	7.2	7.3	7.3	7.3	7.5	7.5
>2000	8.7	15.1	16.3	16.7	16.9	17.1	17.3	17.3
>1000	13.0	24.5	27.7	28.7	29.2	29.7	30.2	30.3
>600	14.8	29.4	35.0	37.1	38.2	39.0	39.7	39.8
>300	14.9	30.5	37.2	39.6	41.0	41.9	42.6	42.7
>150	15.0	30.8	37.6	40.1	41.6	42.5	43.3	43.4
>0	15.0	31.1	38.6	41.5	43.2	45.2	46.3	46.2
TOTAL	255	527	654	744	767	868	1073	1123

TOTAL NUMBER OF OBS: 1696

PCT FREQ NH <5/8: 33.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
15.4	6.5	4.1	3.0	3.1	2.7	5.1	5.4	34.5	1038

PERIOD: (PRIMARY) 1943-1971
(OVER-ALL) 1877-1971

MAY

AREA 0004 SE NEWFOUNDLAND COAST
46.8N 51.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.2	.1	.3	.5	.4	.0	.1	.0	.1	1.9	
	NO PCP	1.6	1.9	2.8	2.9	5.6	4.7	1.0	.8	.0	1.8	23.0	
	TOT %	1.7	2.1	2.9	3.2	6.1	5.2	1.0	.9	.0	1.8	24.9	
1/2<1	PCP	.2	.1	.*	.2	.2	.4	.*	.1	.0	.*	1.5	
	NO PCP	.6	.4	.3	.4	.6	.7	.3	.2	.0	.1	3.4	
	TOT %	.8	.5	.4	.6	.8	1.1	.3	.3	.0	.1	4.9	
1<2	PCP	.1	.1	.1	.1	.3	.1	.*	.1	.0	.0	.9	
	NO PCP	.4	.5	.2	.2	.4	.4	.*	.2	.0	.1	2.5	
	TOT %	.5	.6	.4	.3	.7	.5	.1	.3	.0	.1	3.4	
2<5	PCP	.6	.5	.6	.5	.7	.9	.1	.2	.0	.0	3.6	
	NO PCP	.7	.5	.4	.4	1.1	.9	.2	.5	.0	.2	4.8	
	TOT %	1.3	1.1	.9	.9	1.8	1.3	.3	.6	.0	.2	8.4	
5<10	PCP	.5	.5	.4	.3	.4	.5	.3	.3	.0	.*	3.0	
	NO PCP	3.2	2.7	1.6	1.8	2.8	4.8	2.5	2.3	.0	.3	22.1	
	TOT %	3.5	3.1	2.0	2.1	3.2	5.3	2.8	2.6	.0	.4	25.1	
10+	PCP	.1	.*	.1	.1	.1	.1	.*	.*	.0	.0	.6	
	NO PCP	3.3	2.4	1.8	1.6	3.5	9.0	6.7	3.2	.0	1.1	32.7	
	TOT %	3.5	2.4	1.9	1.7	3.5	9.2	6.7	3.3	.0	1.1	33.3	
TOT OBS													2669
TOT PCT													11.3 9.7 8.5 8.8 16.1 22.9 11.3 8.1 .0 3.7 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.3	.3	.1	.5	.3	.1	.1	.0	1.8	3.6	
	4-10	.8	1.1	1.4	1.3	2.2	1.9	.3	.3	.0		9.3	
	11-21	.5	.6	1.0	1.5	2.6	2.0	.5	.3	.0		9.0	
	22+	.1	.1	.1	.2	.7	.8	.1	.1	.0		2.2	
	TOT %	1.6	2.0	2.8	3.1	6.0	5.1	.9	.9	.0	1.8	24.1	
1/2<1	0-3	.0	.0	.0	.1	.1	.*	.0	.0	.0	.1	.2	
	4-10	.3	.2	.2	.1	.4	.2	.2	.1	.0		1.6	
	11-21	.3	.2	.*	.3	.1	.5	.1	.2	.0		1.7	
	22+	.2	.2	.2	.2	.2	.3	.*	.*	.0		1.3	
	TOT %	.8	.5	.4	.6	.8	1.0	.3	.4	.0	.1	4.9	
1<2	0-3	.0	.0	.1	.0	.*	.*	.0	.0	.0	.1	.2	
	4-10	.1	.2	.1	.2	.2	.1	.*	.*	.0		.8	
	11-21	.2	.3	.2	.1	.2	.3	.1	.1	.0		1.6	
	22+	.2	.1	.*	.1	.3	.1	.0	.2	.0		.9	
	TOT %	.5	.6	.5	.3	.7	.5	.1	.3	.0	.1	3.5	
2<5	0-3	.0	.0	.1	.0	.0	.0	.*	.0	.0	.2	.3	
	4-10	.2	.3	.3	.2	.5	.4	.1	.2	.0		2.2	
	11-21	.6	.4	.4	.5	.7	.5	.1	.2	.0		3.4	
	22+	.4	.2	.1	.1	.6	.4	.2	.3	.0		2.4	
	TOT %	1.2	1.0	.9	.9	1.8	1.3	.4	.7	.0	.2	8.3	
5<10	0-3	.1	.*	.1	.2	.2	.2	.1	.*	.0	.4	1.4	
	4-10	.6	.9	1.0	.7	1.1	1.5	.8	.5	.0		7.1	
	11-21	1.5	1.5	.7	1.0	1.3	2.6	1.3	1.0	.0		11.0	
	22+	1.2	.5	.2	.1	.5	.9	.7	.9	.0		5.0	
	TOT %	3.4	3.0	2.0	2.1	3.2	5.3	2.9	2.3	.0	.4	24.5	
10+	0-3	.2	.1	.2	.1	.5	.4	.3	.1	.0	1.1	3.1	
	4-10	1.1	1.1	1.1	.8	1.4	3.6	2.3	1.6	.0		12.9	
	11-21	1.4	1.0	.6	.7	1.6	3.9	3.2	1.2	.0		13.7	
	22+	.6	.2	.1	.1	.3	1.7	1.5	.9	.0		5.1	
	TOT %	3.3	2.4	1.9	1.8	3.7	9.7	7.3	3.4	.0	1.1	34.7	
TOT OBS													2827
TOT PCT													10.8 9.5 8.4 8.8 16.2 22.8 11.9 8.1 .0 3.6 100.0

MAY

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	24.3	.2	1.8	10.1	9.9	11.0	4.5	1.1	.5	3.4	66.9	33.1	444
06009	29.1	.3	2.7	8.3	14.4	9.6	2.4	.3	1.1	1.9	69.9	30.1	375
12015	20.4	1.2	3.9	8.6	14.2	10.2	3.0	.0	.7	2.8	65.0	35.0	431
18021	17.9	.8	3.4	10.1	13.4	8.2	1.9	.8	1.3	3.8	61.6	38.4	476
TOT	390	11	51	161	223	168	51	10	15	57	1132	594	1726
PCT	22.6	.6	3.0	9.3	12.9	9.7	3.0	.6	.9	3.0	65.6	34.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	23.7	4.9	3.8	6.5	28.6	32.5	738
06009	27.1	5.3	3.0	6.9	24.1	33.7	569
12015	22.7	5.1	3.7	10.4	23.9	34.1	827
18021	24.2	4.3	3.9	8.2	21.5	38.1	772
TOT	704	141	105	236	712	1008	2906
PCT	24.2	4.9	3.6	8.1	24.5	34.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	24.9	28.6	43.9	26.6	29.6	433
06009	30.3	36.1	47.5	25.4	27.0	366
12015	20.4	29.0	44.7	22.0	33.3	427
18021	17.9	26.4	39.8	24.0	36.2	470
TOT	390	504	742	415	539	1696
PCT	23.0	29.7	43.8	24.5	31.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
50/54	.0	.0	.1	.0	.2	.1	.1	.2	12	.7
45/49	.0	.0	.0	.2	.4	.6	1.2	1.9	70	4.4
40/44	.0	.0	.0	.1	1.0	4.0	7.4	18.4	497	30.9
35/39	.0	.0	.0	.1	.9	2.8	11.0	37.9	847	52.7
30/34	.0	.0	.0	.0	.0	.5	2.6	8.2	180	11.2
TOTAL	0	0	1	7	40	129	359	1071	1607	100.0
PCT	.0	.0	.1	.4	2.5	8.0	22.3	66.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
50/54	.1	.1	.1	.1	.1	.2	.1	.1	.0	.0
45/49	.1	.0	.3	.4	1.1	1.3	.6	.3	.0	.3
40/44	1.6	2.3	2.6	4.1	6.6	8.0	9.3	1.5	.0	.9
35/39	7.8	5.8	4.4	3.9	5.5	11.9	7.3	5.4	.0	.6
30/34	2.5	1.6	1.4	.5	.6	1.4	1.3	1.9	.0	.1
TOTAL	12.1	9.9	8.8	9.1	13.8	22.7	12.5	9.1	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	56	48	44	38	33	31	30	38.0	764
06009	51	45	42	37	33	32	30	37.4	593
12015	54	51	45	38	34	32	30	38.8	857
18021	57	50	46	39	34	33	31	39.6	787
TOT	57	49	45	38	33	32	30	38.5	3001

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	1.9	6.5	21.6	70.0	91	464
06009	.0	.6	.8	3.6	17.2	77.8	93	360
12015	.0	.7	3.3	7.8	23.5	64.7	90	422
18021	.0	.7	3.5	14.5	27.2	54.1	88	401
TOT	0	8	40	134	370	1095	91	1647

PERIOD: (PRIMARY) 1943-1971
(OVER-ALL) 1877-1971

MAY

AREA 0004 SE NEWFOUNDLAND COAST
46.8N 51.4W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	*	.0	.1	3	*	.1
14/16	.0	.0	.0	.0	*	.2	.1	9	.1	.3
11/13	.0	.0	.0	.3	.6	.3	*	28	.3	.9
9/10	.0	.0	*	1.2	.9	.1	.0	53	1.0	1.2
7/8	.0	.0	1.7	2.7	1.1	.1	.0	130	2.1	3.4
6	.0	.3	1.9	2.2	.5	*	.0	115	1.9	3.0
5	.0	.4	5.0	2.8	.6	*	.0	207	3.3	5.6
4	.0	1.7	6.0	3.9	.6	*	.0	284	4.9	7.3
3	*	2.9	6.3	2.7	.3	.0	.0	284	4.0	8.2
2	*	5.6	6.8	1.8	*	.0	.0	337	4.4	10.0
1	.2	6.5	5.0	.9	*	.0	*	296	3.6	9.1
0	.5	5.9	3.8	1.1	.0	*	.0	264	2.9	8.5
-1	.4	3.5	1.5	.2	*	.0	.0	130	1.4	4.2
-2	.4	1.4	1.3	.3	*	.0	.0	81	.9	2.5
-3	.2	1.2	.2	.1	.0	.0	.0	40	.6	1.1
-4	.2	.8	.3	.2	.0	.0	.0	34	.5	.9
-5	.2	.3	.2	*	.1	.0	.0	20	.2	.6
-6	*	.2	.1	.0	.0	.0	.0	8	*	.3
-7/-8	.0	.2	.1	.0	.0	.0	.0	6	.1	.2
-9/-10	.0	.1	.1	.0	.0	.0	.0	5	.1	.1
-11/-13	.0	.0	.1	.0	.0	.0	.0	2	*	*
TOTAL	53	721	939	475	116	20	7	2331	757	1574
PCT	2.3	30.9	40.3	20.4	5.0	.9	.3	100.0	32.5	67.5

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.0	.1	.0	.0	.0	1.5	.1	1.7	*	.0	.0	.0	1.8
1-2	.0	1.1	.3	.0	.0	.0	1.4	.1	1.0	.5	.0	.0	.0	1.6
3-4	.0	.7	1.2	.1	.0	.0	2.0	.0	.5	.5	.0	.0	.0	1.0
5-6	.0	.0	.6	.4	.1	.0	1.1	.0	.2	1.0	.2	.0	.0	1.4
7	.0	.0	.3	.2	.2	.0	.7	.0	.2	.1	.1	.0	.0	.5
8-9	.0	.1	.1	.4	.2	.0	.5	.0	*	.1	.2	.0	.0	.3
10-11	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.1	.2	.0	.3
12	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	*	.0	.1
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.1	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.8	2.7	1.5	.8	.0	8.3	.2	3.6	2.2	.8	.7	.0	1.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.0	.0	.0	.0	1.6	.4	.4	.0	.0	.0	.0	.7
1-2	.1	1.3	2.0	.0	.0	.0	3.4	.1	1.2	.5	.0	.0	.0	1.8
3-4	.1	.6	1.1	.1	.0	.0	1.9	.0	.6	1.3	.1	.0	.0	1.9
5-6	.0	.2	.5	.2	.0	.0	.9	.0	*	1.0	.1	.0	.0	1.0
7	.0	.1	.5	.2	.0	.0	.8	.0	.0	1.0	.1	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.5
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.7	.1	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.4	4.1	.5	.0	.0	8.7	.5	2.1	3.8	1.3	.2	.0	8.0

PERIOD: (OVER-ALL) 1963-1971

MAY

AREA 0004 SE NEWFOUNDLAND COAST
46.8N 51.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.0	.0	.0	.0	1.6	.2	1.8	.1	.0	.0	.0	2.1
1-2	.9	2.2	.9	.0	.0	.0	4.0	1.0	3.6	1.3	.0	.0	.0	5.8
3-4	.0	1.1	2.0	.6	.0	.0	3.7	.0	2.3	3.5	.7	.0	.0	6.5
5-6	.0	.1	1.5	.2	.0	.0	1.8	.0	1.0	2.7	.8	.1	.0	4.6
7	.0	.2	1.5	.3	.0	.0	2.0	.0	.1	1.6	1.0	.1	.0	2.9
8-9	.0	.2	.3	.7	.1	.0	1.3	.0	.0	.7	1.5	.1	.0	2.3
10-11	.0	.0	.0	.6	.1	.0	.7	.0	.1	.0	1.0	.2	.0	1.3
12	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.4	.2	.0	.7
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.5	.1	.0	.7
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.1	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	5.0	6.2	2.9	.5	.0	15.9	1.1	8.9	9.9	6.2	1.0	.0	27.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.6	.0	.0	.0	.0	.9	.3	.7	.1	.0	.0	.0	1.2	
1-2	.3	1.1	.3	.0	.0	.0	1.6	.0	1.2	.5	.0	.0	.0	1.7	
3-4	.0	1.5	1.6	.5	.0	.0	3.7	.0	.6	.5	.1	.0	.0	1.1	
5-6	.1	.4	1.0	.1	.0	.0	1.6	.0	.3	.4	.3	.0	.0	1.0	
7	.0	.1	.8	.5	.0	.0	1.6	.0	.0	.4	.1	.0	.0	.5	
8-9	.0	.0	.4	.4	.0	.0	.8	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.1	.2	.5	.0	.8	.0	.0	.1	.7	.0	.0	.8	
12	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.2	.3	.0	.5	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	3.7	4.2	2.0	.8	.0	11.4	.5	2.8	2.1	1.5	.3	.0	7.1	93.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.6	8.6	.3	.0	.0	.0	18.5	
1-2	3.1	12.4	6.0	.0	.0	.0	21.5	
3-4	.1	7.8	11.3	2.2	.0	.0	21.5	
5-6	.1	2.1	8.4	2.2	.2	.0	13.2	
7	.1	.7	6.1	2.6	.3	.0	9.8	
8-9	.0	.3	1.8	3.4	.2	.0	5.8	
10-11	.0	.1	.2	3.8	1.3	.0	5.2	
12	.0	.0	.0	.5	.0	.0	1.7	
13-16	.0	.0	.1	.9	.7	.0	1.7	
17-19	.0	.0	.1	.7	.5	.0	1.4	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.0	32.1	34.4	16.3	4.2	.0	100.0	935

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	7.6	12.1	4.7	2.3	.4	.7	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	495	3
6-7	.0	.7	9.0	5.2	9.1	3.3	1.7	.2	.5	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	386	6
8-9	.0	.1	1.3	2.4	2.4	1.8	2.3	.7	.9	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	204	8
10-11	.0	.2	.5	.4	.9	.8	.4	.3	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	65	8
12-13	.0	.0	.2	.4	.4	.2	.4	.2	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	27	9
>13	.0	.0	.0	.1	.0	.2	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	10
INDEX	5.6	5.1	5.9	5.3	3.9	1.6	.8	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	457	4
TOTAL	128	225	406	299	292	135	106	34	37	14	.5	2	.0	.0	.0	.0	.0	.0	.0	1623	5
PCT	7.9	13.9	25.0	18.4	14.3	8.3	6.5	2.1	2.3	.9	.3	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1938-1971
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JUNE

AREA 0004 SE NEWFOUNDLAND COAST
47.0N 51.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.7	.8	2.6	.0	.2	.0	.0	7.3	1.5	.0	30.8	.9	.8	.0	58.6
NE	9.9	1.0	5.3	.0	.0	.0	.0	16.3	1.1	.0	29.5	1.6	1.0	.0	50.5
E	15.8	.7	9.0	.0	.5	.0	.0	26.0	3.2	1.2	25.3	1.4	1.4	.0	42.7
SE	12.5	.7	4.6	.0	.2	.0	.0	17.7	1.3	.2	36.1	2.0	.7	.0	42.3
S	5.2	1.2	1.6	.0	.1	.0	.0	8.1	.3	.3	48.5	.7	.4	.0	41.9
SW	3.5	.7	2.1	.0	.0	.0	.0	6.2	.6	.1	43.5	1.0	1.5	.0	47.1
W	1.2	.8	3.1	.0	.0	.0	.0	5.2	.8	.0	21.4	.2	1.4	.0	70.9
NW	3.0	.8	1.5	.0	.2	.0	.0	5.1	1.5	.0	25.8	.6	.4	.0	66.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8	.0	.0	.0	.0	.0	.0	.8	.0	.8	41.3	1.7	1.7	.0	53.7
TOT PCT	5.2	.8	2.8	.0	.1	.0	.0	8.8	.9	.2	37.2	1.0	1.0	.0	51.0
TOT OBS:	3245														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	7.9	.7	3.1	.0	.0	.0	.0	11.4	.8	.3	36.5	.9	.8	.0	49.3
06009	6.5	.8	3.4	.0	.0	.0	.0	10.6	1.6	.1	38.3	.7	.4	.0	48.2
12015	3.9	1.0	2.6	.0	.1	.0	.0	7.6	1.0	.0	39.8	1.1	1.7	.0	48.8
18021	3.3	.7	1.8	.0	.2	.0	.0	6.1	.2	.3	33.5	1.3	.8	.0	58.1
TOT PCT	5.2	.8	2.7	.0	.1	.0	.0	8.7	.9	.2	37.1	1.0	1.0	.0	51.2
TOT OBS:	3354														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.6	3.7	4.5	1.1	.1	.0		10.1	12.9	9.4	8.0	10.4	10.1	10.6	10.3	9.9	11.1	
NE	.6	3.0	2.7	.4	.1	.0		6.9	11.5	9.2	5.6	6.7	2.5	6.0	7.9	7.4	7.1	
E	.4	2.2	1.4	.2	.1	.0		4.2	10.3	5.5	3.8	4.7	2.0	4.0	3.5	4.4	2.8	
SE	1.1	3.5	3.3	.6	.0	.0		8.5	11.0	8.7	11.5	7.6	8.4	6.9	10.7	7.8	13.0	
S	1.1	8.5	8.2	1.8	.0	.0		19.7	12.2	19.4	20.9	18.4	21.7	19.0	17.9	20.5	23.9	
SW	.9	8.7	15.4	3.7	.2	.0		28.9	14.1	28.2	26.9	29.0	31.8	29.7	27.1	29.1	28.0	
W	.5	4.3	4.4	1.0	.1	.0		10.3	12.4	8.7	14.5	11.2	10.2	10.9	11.2	10.1	5.0	
NW	.4	3.0	3.5	.8	.1	.0		7.8	12.6	6.9	7.8	6.8	10.7	8.1	10.9	6.8	7.4	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.7							3.7	.0	4.0	1.0	5.2	2.5	4.7	1.1	4.0	1.6	
TOT OBS	335	1321	1557	344	28	1	3586		12.2	622	193	537	298	805	275	727	189	
TOT PCT	9.3	36.8	43.4	9.6	.8	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.2	4.9	2.3	.6	.0	10.1	12.9	9.1	10.3	10.5	10.1	
NE	2.2	3.2	1.2	.3	.1	6.9	11.5	8.3	5.4	6.5	7.3	
E	1.3	2.3	.6	.1	.0	4.2	10.3	5.1	3.9	3.9	4.1	
SE	2.6	4.0	1.8	.2	.0	8.5	11.0	9.4	7.9	7.9	8.9	
S	4.3	10.3	4.6	.5	.0	19.7	12.2	19.7	19.4	18.6	21.2	
SW	3.8	15.1	8.8	1.1	.0	28.9	14.1	27.9	29.8	29.1	28.9	
W	2.4	5.2	2.4	.3	.0	10.3	12.4	10.1	10.9	10.9	9.1	
NW	1.8	3.7	2.0	.2	.0	7.8	12.6	7.1	8.0	8.8	7.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.7					3.7	.0	3.3	4.4	3.8	3.5	
TOT OBS	872	1749	847	116	2	3586	12.2	815	775	1080	916	
TOT PCT	24.3	48.8	23.6	3.2	.1		100.0	100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	3.3	5.9	37.7	42.1	10.3	.6	.1	12.2	100.0	815
0600	4.4	5.3	37.0	44.0	8.6	.6	.0	12.1	100.0	775
1200	3.8	6.4	36.6	43.9	8.5	.8	.0	11.9	100.0	1080
1800	3.5	4.7	36.2	43.6	11.0	1.0	.0	12.5	100.0	916
TOT	134	201	1321	1557	344	28	1	12.2		3586
PCT	3.7	5.6	36.8	43.4	9.6	.8	*	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

BY WIND DIRECTION						
WIND DIR	0-2	3-4	5-7	8 & 9 OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	.9	1.2	6.1		6.2
NE	.5	.4	1.0	5.5		7.0
E	.3	.2	.8	3.7		7.1
SE	.5	.4	1.3	5.8		7.1
S	2.6	1.0	2.2	11.8		6.4
SW	6.3	2.4	4.3	16.3		5.8
W	3.9	1.3	2.3	3.8		4.6
NW	1.7	.3	1.6	3.8		5.8
VAR	.0	.0	.0	.0		.0
CALM	.9	.3	1.1	1.9		5.6
TOT OBS	326	125	278	1031	1760	6.1
TOT PCT	18.5	7.1	15.8	58.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

BY WIND DIRECTION											AND ACCURACY OF NH <5/8 BY WIND DIRECTION										
WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS			
							149	299	599	999	1999	3999	4999	6499	7999						
N	1.7	.9	1.2	6.1		6.2	1.4	.1	.6	1.1	1.8	.8	.5	*	.1	.1	3.2				
NE	.5	.4	1.0	5.5		7.0	1.8	.1	.3	1.4	.7	1.3	.4	.2	.1	.2	1.1				
E	.3	.2	.8	3.7		7.1	1.1	.1	.4	.6	1.0	.2	.4	.1	.0	.2	.9				
SE	.5	.4	1.3	5.8		7.1	2.6	.1	.4	.4	1.3	.6	.3	.3	.2	.4	1.4				
S	2.6	1.0	2.2	11.8		6.4	7.8	.1	.4	.9	1.4	.7	.3	.1	.2	.3	5.6				
SW	6.3	2.4	4.3	16.3		5.8	10.9	.1	.5	1.2	2.0	1.1	.8	.4	.5	.5	11.3				
W	3.9	1.3	2.3	3.8		4.6	1.5	.1	.2	.5	1.1	.8	.3	.1	.2	.1	6.2				
NW	1.7	.3	1.6	3.8		5.8	1.3	.0	.4	.4	.8	.9	.6	.2	.2	.0	2.8				
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	.9	.3	1.1	1.9		5.6	1.4	.1	.1	.2	.2	.2	.2	.1	.0	.3	1.6				
TOT OBS	326	125	278	1091	1760	6.1	325	12	58	113	177	115	68	29	23	39	601	1760			
TOT PCT	18.5	7.1	15.8	58.6	100.0		29.8	.7	3.3	6.4	10.1	6.5	3.9	1.6	1.3	2.2	34.1	100.0			

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>500	>0
>6500	1.9	3.0	3.5	3.6	3.6	3.7	3.7	3.7
>5000	2.5	4.2	5.1	5.2	5.2	5.3	5.3	5.3
>3500	4.3	7.1	8.6	8.9	9.1	9.1	9.2	9.2
>2000	7.0	12.6	14.9	15.2	15.4	15.5	15.6	15.6
>1000	11.0	19.8	23.7	24.7	25.2	25.4	25.6	25.6
>600	13.0	23.8	28.9	30.7	31.3	31.6	31.9	32.0
>300	13.4	25.1	31.4	33.7	34.3	34.7	35.1	35.2
>150	13.4	25.2	31.7	34.2	34.7	35.2	35.7	35.8
>0	13.4	25.6	32.6	36.3	39.0	43.4	61.4	65.6
TOTAL	239	456	580	645	694	772	1093	1167

TOTAL NUMBER OF OBS: 1779

PCT FREQ NH <5/8: 34.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL
14.8	5.8	5.7	4.0	3.0	2.7	4.5	5.9	26.5	27.1	1914

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.1	.2	.4	.6	.1	.1	.0	*	1.6	
	NO PCP	1.7	1.2	.6	2.3	8.0	9.8	1.6	1.5	.0	1.3	27.9	
	TOT %	1.7	1.2	.7	2.6	8.4	10.4	1.7	1.6	.0	1.3	29.5	
1/2<1	PCP	.1	*	*	.2	.2	*	.1	*	.0	.0	.6	
	NO PCP	.4	.3	.2	.3	1.0	.9	.1	.1	.0	.2	3.3	
	TOT %	.4	.3	.2	.5	1.2	.9	.2	.1	.0	.2	3.9	
1<2	PCP	.1	.1	.1	.1	.2	.5	.1	*	.0	.0	1.3	
	NO PCP	.3	.3	.2	.3	.3	.9	.2	.2	.0	*	2.8	
	TOT %	.4	.5	.2	.4	.5	1.4	.3	.2	.0	*	4.1	
2<5	PCP	.2	.4	.5	.4	.3	.4	.1	.1	.0	.0	2.3	
	NO PCP	.8	.3	.3	.6	.5	2.2	.6	.4	.0	.2	6.0	
	TOT %	1.1	.7	.9	1.0	.8	2.6	.7	.5	.0	.2	8.3	
5<10	PCP	.3	.4	.3	.5	.4	.3	.2	.1	.0	.0	2.5	
	NO PCP	2.6	1.8	1.1	1.7	4.2	6.0	2.4	1.9	.0	.7	22.4	
	TOT %	2.9	2.2	1.4	2.1	4.6	6.3	2.6	2.0	.0	.7	24.9	
10+	PCP	.1	*	.1	.1	.1	.1	*	.1	.0	.0	.5	
	NO PCP	4.6	1.9	.9	1.8	4.2	7.4	4.6	3.2	.0	1.4	28.8	
	TOT %	3.6	1.9	.9	1.9	4.3	7.4	4.6	3.2	.0	1.4	29.2	
TOT OBS													3235
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.4	.5	.4	.1	.1	.0	1.3	3.0	
	4-10	.8	.7	.4	1.3	3.1	2.7	.8	.9	.0		10.6	
	11-21	.7	.4	.2	1.0	3.9	5.7	.6	.5	.0		12.9	
	22+	.1	*	.0	.1	.8	1.4	.1	.1	.0		2.6	
	TOT %	1.7	1.3	.7	2.7	8.2	10.1	1.7	1.6	.0	1.3	29.2	
1/2<1	0-3	*	.1	*	*	*	*	*	.0	.0	.2	.4	
	4-10	.1	.1	.1	.2	.6	.3	*	.1	.0		1.5	
	11-21	.2	.1	.1	.2	.4	.5	.1	*	.0		1.6	
	22+	.1	*	.0	*	.1	.1	.1	.0	.0		.5	
	TOT %	.4	.3	.2	.5	1.2	1.0	.2	.1	.0	.2	4.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.1	
	4-10	.2	.2	.1	.2	.1	.3	.2	.1	.0		1.3	
	11-21	.2	.2	.1	.1	.2	.9	.1	.1	.0		2.0	
	22+	*	*	*	.1	.2	.1	*	*	.0		.6	
	TOT %	.4	.4	.2	.4	.5	1.3	.3	.2	.0	*	3.9	
2<5	0-3	*	.1	.1	*	*	.1	*	.1	.0	.1	.5	
	4-10	.4	.1	.1	.3	.4	.5	.3	.1	.0		2.2	
	11-21	.6	.3	.5	.5	.2	1.3	.4	.2	.0		4.0	
	22+	.1	.2	.2	.1	.1	.6	.1	.1	.0		1.6	
	TOT %	1.1	.7	.8	1.0	.8	2.4	.8	.5	.0	.1	8.2	
5<10	0-3	.1	*	.1	.3	.2	.1	*	*	.0	.7	1.7	
	4-10	.7	.8	.8	.7	1.8	1.6	1.0	.5	.0		8.0	
	11-21	1.3	1.0	.4	.9	2.1	3.7	1.1	1.1	.0		11.6	
	22+	.6	.3	.1	.1	.5	.9	.3	.3	.0		3.0	
	TOT %	2.8	2.1	1.3	2.1	4.5	6.3	2.4	1.9	.0	.7	24.3	
10+	0-3	.3	.4	.2	.3	.3	.3	.3	.1	.0	1.5	3.6	
	4-10	1.5	1.2	.7	.9	2.3	3.0	2.0	1.3	.0		12.9	
	11-21	1.7	.5	.1	.6	1.5	3.4	2.2	1.6	.0		11.6	
	22+	.3	*	.0	.1	.2	.9	.4	.4	.0		2.4	
	TOT %	3.8	2.1	1.0	1.9	4.2	7.7	4.8	3.4	.0	1.5	30.4	
TOT OBS													3412
TOT PCT													100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	31.6	1.1	3.1	6.4	10.0	6.2	4.2	1.1	1.3	2.4	67.5	32.5	452
06009	34.3	.2	3.2	6.9	9.6	5.9	3.0	1.6	1.4	2.3	68.4	31.6	437
12015	28.1	1.1	3.9	6.4	9.4	6.2	4.7	1.3	1.1	2.6	64.7	35.3	467
18021	24.1	.2	2.6	5.4	10.6	7.3	3.2	2.4	1.5	2.2	59.5	40.5	464
TOT PCT	536 29.5	12 .7	58 3.2	114 6.3	180 9.9	117 6.4	69 3.8	29 1.6	24 1.3	43 2.4	1182 64.9	638 35.1	1820 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	30.2	5.1	3.0	7.4	28.2	26.1	788
06009	31.5	3.1	4.2	7.6	23.8	29.8	765
12015	30.3	4.7	4.4	9.3	24.4	26.9	1069
18021	24.9	3.0	4.7	8.1	22.0	38.4	902
TOT PCT	1028 29.2	141 4.0	136 3.9	288 8.2	863 24.5	1068 30.3	3524 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	32.4	39.6	53.4	19.4	27.3	444
06009	34.6	39.7	52.0	20.2	27.8	431
12015	28.1	35.2	49.5	19.3	31.2	455
18021	24.7	30.7	44.5	20.5	35.0	449
TOT PCT	532 29.9	645 36.3	886 49.8	353 19.8	540 30.4	1779 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.1	.0	.0	.0	2	.1
60/64	.0	.0	.0	.1	.2	.2	.0	.1	10	.6
55/59	.0	.0	.0	.0	.2	.3	.5	.3	23	1.3
50/54	.0	.0	.1	.0	.5	1.6	3.9	4.5	101	10.4
45/49	.0	.0	.0	.1	.3	2.5	7.7	22.4	574	33.0
40/44	.0	.0	.0	.0	.2	1.7	8.9	31.0	724	41.7
35/39	.0	.0	.0	.0	.0	.5	1.8	10.2	218	12.6
30/34	.0	.0	.0	.0	.0	.0	.1	.2	5	.3
TOTAL PCT	0 .0	0 .0	1 .1	4 .2	25 1.4	117 6.7	396 22.8	1194 68.7	1737	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.0	.1	*	.0	.0	.0	.0	.0	.0
60/64	.0	.0	*	*	.3	.1	.1	.0	.0	.0
55/59	.1	.0	.1	.1	.3	.6	.2	.0	.0	.0
50/54	.4	.4	.2	.4	2.6	4.0	1.3	.3	.0	.7
45/49	1.3	1.2	1.4	3.3	8.0	12.2	3.6	1.6	.0	.5
40/44	5.1	3.5	2.5	3.6	6.9	10.4	4.7	3.3	.0	1.7
35/39	2.3	2.3	1.2	1.1	1.1	1.3	.9	1.7	.0	.7
30/34	.1	.0	.0	.1	*	*	.0	.0	.0	.1
TOTAL	9.2	7.3	5.5	8.6	19.2	28.6	10.9	7.0	.0	3.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	64	56	51	43	38	36	34	43.7	833
06009	56	53	50	43	37	35	33	43.0	793
12015	63	57	52	44	39	36	35	44.4	1100
18021	65	59	54	45	39	37	32	45.3	929
TOT	65	57	52	44	38	36	32	44.2	3655

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.2	.7	4.0	18.6	76.5	93	451		
06009	.0	.2	.7	5.1	18.7	75.2	93	428		
12015	.0	.2	1.7	6.8	23.7	67.6	92	482		
18021	.0	.5	2.9	11.7	30.4	54.5	89	418		
TOT	0	5	26	122	405	1221	92	1779		

JUNE

PERIOD: (PRIMARY) 1938-1971
(OVER-ALL) 1869-1971AREA 0004 SE NEWFOUNDLAND COAST
47.0N 51.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	4	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	8	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.4	.4	.1	.0	31	.2	.9
11/13	.0	.0	.0	.0	.1	.6	.7	.2	.0	.0	47	.4	1.2
9/10	.0	.0	.0	.2	1.1	1.6	.4	.0	.0	.0	99	1.0	2.4
7/8	.0	.0	.1	.8	4.0	2.5	.3	.0	.0	.0	225	2.9	4.7
6	.0	.0	.2	1.8	2.6	1.3	.3	.0	.0	.0	178	2.4	3.7
5	.0	.0	.2	2.5	4.5	1.3	.1	.0	.0	.0	253	3.5	5.2
4	.0	.0	.8	3.4	4.2	1.2	.1	.0	.0	.0	344	5.0	6.8
3	.0	.0	1.6	5.6	3.3	1.0	.0	.0	.0	.0	335	4.9	6.5
2	.0	.0	3.0	6.2	2.9	.4	.0	.0	.0	.0	364	4.7	7.7
1	.0	.1	4.3	5.3	1.9	.4	.1	.0	.0	.0	353	3.9	8.2
0	.0	.1	3.2	4.0	1.3	.3	.0	.0	.0	.0	263	3.0	6.0
-1	.0	.3	3.2	1.5	.6	.2	.0	.0	.0	.0	173	1.8	4.1
-2	.0	.4	2.0	.9	.3	.2	.0	.0	.0	.0	112	1.7	2.1
-3	.0	.3	1.0	.6	.1	.1	.0	.0	.0	.0	65	1.0	1.2
-4	.0	.1	.6	.4	.1	.1	.0	.0	.0	.0	38	.8	.5
-5	.0	.2	.1	.3	.0	.0	.0	.0	.0	.0	19	.3	.4
-6	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
-7/-8	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	5	.1	.1
-9/-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	3	.1	.0
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
-14/-16	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	2	46	599	1047	794	326	79	22	10	2	2927	1105	1822
PCT	.1	1.6	20.5	35.8	27.1	11.1	2.7	.8	.3	.1	100.0	37.8	62.2

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.0	.0	.0	.0	1.5	<1	.2	.6	.0	.0	.0	.0	.8
1-2	.4	1.7	1.4	.0	.0	.0	3.4	1-2	.2	1.2	.4	.0	.0	.0	1.8
3-4	.0	.4	1.1	.1	.0	.0	1.6	3-4	.3	.5	.4	.0	.0	.0	1.2
5-6	.0	.4	1.3	.5	.0	.0	2.1	5-6	.0	.0	.2	.0	.1	.0	.3
7	.0	.0	.6	.6	.1	.0	1.3	7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.1	.0	.0	.1	8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.2	.1	.0	.3	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.8	4.3	1.6	.2	.0	10.5	TOT PCT	.7	2.3	1.3	.0	.1	.0	4.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.8	<1	.6	.8	.2	.0	.0	.0	1.6
1-2	.1	.3	.2	.0	.0	.0	.6	1-2	.9	1.6	.7	.0	.0	.0	3.2
3-4	.0	.1	.5	.0	.0	.0	.6	3-4	.0	.5	1.4	.0	.0	.0	1.9
5-6	.0	.2	.1	.0	.0	.0	.3	5-6	.0	.1	.3	.3	.0	.0	.8
7	.0	.0	.2	.0	.0	.0	.2	7	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.3	1.0	.0	.1	.0	2.6	TOT PCT	1.4	3.0	3.2	.5	.0	.0	8.2

PERIOD: (OVER-ALL) 1963-1971

JUNE

AREA 0004 SE NEWFOUNDLAND COAST
47.0N 51.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.8	.2	.0	.0	.0	1.2	.3	.9	.0	.0	.0	.0	1.2	
1-2	.4	3.2	1.6	.0	.0	.0	5.2	.2	4.3	.9	.0	.0	.0	5.4	
3-4	.0	2.4	3.8	.3	.0	.0	6.5	.0	2.0	7.5	.1	.0	.0	9.6	
5-6	.0	.4	2.1	.7	.0	.0	3.2	.1	.6	5.4	.7	.0	.0	6.8	
7	.0	.1	1.2	.5	.0	.0	1.8	.0	.1	2.4	1.8	.1	.0	4.4	
8-9	.0	.0	.3	.8	.0	.0	1.1	.0	.1	.5	.9	.1	.0	1.6	
10-11	.0	.1	.1	.2	.0	.0	.4	.0	.0	.1	.9	.0	.0	1.0	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.1	.0	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.3	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	7.1	9.4	2.7	.0	.0	19.7	.6	7.9	16.8	4.9	.2	.0	30.4	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	1.0	.0	.0	.0	.0	1.1	.2	1.2	.0	.0	.0	.0	1.4	
1-2	.1	1.7	.6	.0	.0	.0	2.4	.0	1.3	.4	.0	.0	.0	1.4	
3-4	.1	1.2	1.7	.3	.0	.0	3.2	.0	.5	1.0	.0	.0	.0	1.5	
5-6	.0	.5	1.8	.2	.0	.0	2.4	.0	.1	1.0	.5	.0	.0	1.6	
7	.0	.0	.8	.2	.0	.0	1.0	.0	.1	.0	.5	.0	.0	.6	
8-9	.0	.0	.2	.1	.1	.0	.3	.0	.0	1.4	.3	.0	.0	1.7	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.2	
12	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.3	5.2	.8	.1	.0	10.6	.2	3.2	3.7	1.4	.0	.0	8.5	94.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	7.7	7.4	.4	.0	.0	.0	15.4	
1-2	2.4	15.0	6.2	.0	.0	.0	23.6	
3-4	.5	7.5	17.2	.8	.0	.0	25.9	
5-6	.1	2.2	12.0	2.8	.1	.0	17.3	
7	.0	.3	5.5	1.5	.2	.0	9.6	
8-9	.0	.1	2.7	2.1	.2	.0	5.1	
10-11	.0	.2	.2	1.4	.1	.0	1.9	
12	.0	.0	.1	.5	.0	.0	.6	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.7	32.7	44.3	11.6	.7	.0	100.0	991

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	11.5	14.5	8.1	2.8	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	673	3
6-7	.1	1.2	7.6	6.8	5.2	2.3	1.0	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	419	5
8-9	.0	.2	.9	1.4	2.1	.6	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	116	7
10-11	.0	.1	.4	.2	.5	.2	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	7
12-13	.0	.0	.1	.1	.3	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	8
>13	.0	.0	.0	.1	.1	.2	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	10
INDET	5.2	5.9	3.7	3.7	3.3	2.0	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	410	4
TOTAL	127	319	455	340	241	106	46	29	16	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1681	4
PCT	7.6	19.0	27.1	20.2	14.3	6.3	2.7	1.7	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1928-1970
(OVER-ALL) 1874-1970

JULY

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.5	1.7	4.3	.0	.0	.0	.0	11.4	1.9	.0	15.9	1.0	1.0	.0	68.9
NE	13.0	1.1	7.9	.0	.0	.0	.0	22.0	.0	.0	31.3	1.1	.0	.0	45.6
E	14.3	3.0	8.9	.0	.0	.0	.0	26.1	1.7	.0	40.9	1.0	.0	.0	30.3
SE	10.5	.8	4.4	.0	.0	.0	.0	15.7	.4	.3	52.3	.1	1.1	.0	30.1
S	6.2	.7	3.9	.0	.0	.0	.0	10.3	.8	.2	57.1	.8	.4	.0	30.5
SW	4.0	.6	1.6	.0	.0	.0	.0	6.2	.6	.5	44.7	.8	2.1	.0	45.2
W	1.3	.9	1.6	.0	.0	.0	.0	3.7	.9	.0	33.2	1.2	1.9	.0	59.1
NW	.8	.3	3.4	.0	.0	.0	.0	4.5	.0	.0	16.4	3.2	1.3	.0	74.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7	.0	2.7	.0	.0	.0	.0	5.4	.0	.0	56.8	.0	.0	.0	37.8
TOT PCT	5.6	.9	3.3	.0	.0	.0	.0	9.6	.7	.2	44.1	.9	1.2	.0	43.2
TOT OBS:	2097														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	6.5	.7	3.2	.0	.0	.0	.0	10.3	.4	.5	46.0	.7	1.4	.0	40.8
0600	7.4	.9	4.0	.0	.0	.0	.0	12.1	1.7	.4	40.4	.8	.8	.0	44.0
1200	5.2	.7	4.3	.0	.0	.0	.0	9.8	.5	.0	47.8	.5	.9	.0	40.5
1800	3.1	1.0	1.6	.0	.0	.0	.0	5.7	.2	.0	42.2	1.6	1.8	.0	48.4
TOT PCT	5.6	.8	3.3	.0	.0	.0	.0	9.5	.7	.2	44.2	.9	1.2	.0	43.2
TOT OBS:	2139														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	2.3	1.9	.3	*	.0		5.0	11.2		5.2	4.3	4.6	2.9	5.8	7.7	4.0	4.2
NE	.3	2.1	1.5	.1	.0	.0		4.1	9.8		3.8	3.7	4.0	3.8	4.6	2.2	5.3	1.8
E	.3	2.5	1.3	.2	.1	.0		4.4	10.4		3.3	3.2	4.6	3.6	5.6	3.1	5.3	4.2
SE	.7	3.5	3.2	.4	.1	.0		7.9	10.9		10.4	8.6	6.2	7.8	6.9	9.5	7.4	6.8
S	1.2	10.4	12.6	1.9	.1	.0		26.2	12.3		27.3	25.3	23.4	28.4	22.9	31.5	28.0	31.8
SW	1.2	12.1	17.2	3.8	.2	.0		34.5	13.1		34.5	39.6	37.1	31.5	32.9	28.6	35.0	33.2
W	.4	4.9	5.6	.6	.1	.0		11.6	12.0		9.5	11.9	12.4	14.9	13.6	12.9	8.4	14.2
NW	.3	1.5	2.1	.7	*	.0		4.6	13.2		4.5	2.4	5.4	4.8	5.1	4.0	4.9	2.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0		1.7	1.1	2.4	2.3	2.4	.5	1.8	1.1
TOT OBS	166	981	1132	199	14	0	2492		12.0		465	187	467	131	496	195	456	95
TOT PCT	6.7	39.4	44.4	8.0	.6	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.7	2.3	.7	.3	.0		5.0	11.2	4.9	4.2	6.4	4.0
NE	1.3	2.4	.4	.0	.0		4.1	9.8	3.8	3.9	3.9	4.7
E	1.3	2.6	.4	.1	.0		4.4	10.4	3.3	4.4	4.9	5.1
SE	2.3	4.4	1.1	.2	.0		7.9	10.9	9.9	6.6	7.6	7.3
S	5.2	14.8	5.7	.5	*		26.2	12.3	26.7	24.5	25.4	28.6
SW	5.8	18.7	9.2	.7	*		34.5	13.1	35.9	35.9	31.7	34.7
W	2.6	6.5	2.3	.1	*		11.6	12.0	10.2	12.9	13.4	9.4
NW	.8	2.7	.7	.4	.0		4.6	13.2	3.9	5.2	4.8	4.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	1.5	2.3	1.9	1.6
TOT OBS	572	1353	508	57	2	2492		12.0	652	598	691	551
TOT PCT	23.0	54.3	20.4	2.3	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1928-1970
(OVER-ALL) 1874-1970

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0003	1.5	4.8	40.2	45.9	9.0	.8	.0	12.2	100.0	652
0609	2.3	2.3	37.6	50.3	7.2	.2	.0	12.2	100.0	598
1215	1.9	7.1	42.5	42.4	5.8	.3	.0	11.2	100.0	691
1821	1.6	4.7	36.3	45.7	10.3	1.3	.0	12.7	100.0	551
TOT	.46	120	981	1132	199	14	0	12.0		2492
PCT	1.8	4.8	39.4	45.4	8.0	.8	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.4	.8	3.7		6.8
NE	.1	.2	.8	2.9		7.2
E	.2	.2	.4	4.1		7.3
SE	.5	.6	.7	6.1		7.0
S	3.4	1.1	3.2	19.2		6.7
SW	8.3	2.8	3.9	17.8		5.6
W	4.4	1.0	1.5	4.4		4.5
NW	1.1	.3	.5	2.7		5.7
VAR	.0	.0	.0	.0		.0
CALM	.5	.1	.4	1.0		5.3
TOT OBS	280	99	179	912	1470	6.1
TOT PCT	19.0	6.7	12.2	62.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <9/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <9/8	TOTAL
149	298	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.8	.0	.3	.3	1.6	.8	.1	.0	.1	.0	1.3	
1.0	.1	.3	.5	1.0	.4	.0	.0	.1	.0	.7	
1.5	.1	.4	.4	1.1	.3	.0	.2	.1	.0	.8	
3.3	.1	.3	.9	1.2	.3	.2	*	.1	.1	1.7	
14.1	.2	.5	1.7	1.8	1.0	.2	*	.1	.5	6.8	
11.4	.2	.3	1.0	2.4	1.4	.7	.4	.4	1.1	13.6	
2.4	.0	.3	.3	1.2	.3	.2	.1	.2	.3	6.0	
.6	.0	.2	.3	1.2	.5	*	.0	.1	.0	1.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.7	.0	.1	.1	.1	.1	.0	.0	.0	.0	1.0	
526	10	40	81	171	74	20	11	19	29	493	1470
35.8	.7	7.7	5.5	11.6	5.0	1.4	.7	1.0	2.0	33.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.6	2.6	2.9	2.9	2.9	2.9	2.9	2.9
>5000	1.9	3.3	3.5	3.6	3.6	3.6	3.7	3.7
>3500	2.8	4.6	4.8	4.9	5.0	5.0	5.0	5.0
>2000	5.1	8.8	9.4	9.6	9.8	9.9	10.1	10.1
>1000	8.2	16.8	19.3	20.2	20.7	21.0	21.5	21.6
>600	9.3	19.6	23.6	25.2	26.0	26.4	27.0	27.1
>300	9.8	20.9	25.7	27.5	28.5	28.9	29.6	29.8
>150	9.9	21.1	26.0	28.0	29.0	29.6	30.3	30.4
>0	10.1	21.4	26.8	29.3	31.9	36.9	59.0	66.4
TOTAL	149	315	394	491	470	543	869	977

TOTAL NUMBER OF OBS: 1472

PCT FREQ NH <9/8: 33.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
19.8	9.9	5.7	3.1	3.1	2.1	4.2	2.9	23.3	33.9	1536

PERIOD: (PRIMARY) 1928-1970
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JULY

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46.0N 51.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	.8	.1	.2	.9	.8	.2	.8	.0	.0	2.3	
	NO PCP	.1	.8	1.3	3.3	12.3	12.3	2.7	.4	.0	.7	34.2	
	TOT %	.7	.9	1.4	3.5	13.3	13.1	2.9	.4	.0	.7	36.7	
1/2<1	PCP	.1	.1	.1	.8	.3	.7	.1	.8	.0	.0	.9	
	NO PCP	.1	.1	.4	.6	1.2	.9	.6	.1	.0	.0	4.0	
	TOT %	.2	.2	.6	.6	1.4	1.1	.7	.1	.0	.0	4.9	
1<2	PCP	.0	.2	.2	.3	.4	.1	.0	.0	.0	.8	1.1	
	NO PCP	.1	.1	.1	.8	.5	.7	.2	.1	.0	.1	1.9	
	TOT %	.1	.3	.3	.3	.9	.7	.2	.1	.0	.2	3.0	
2<5	PCP	.8	.1	.3	.2	.6	.3	.8	.1	.0	.0	1.6	
	NO PCP	.9	.4	.2	.5	1.3	1.2	.4	.2	.0	.1	4.6	
	TOT %	.9	.5	.5	.6	1.8	1.6	.4	.3	.0	.1	6.2	
5<10	PCP	.9	.5	.5	.5	.5	.6	.8	.1	.0	.0	3.0	
	NO PCP	1.8	1.0	.8	1.5	4.2	7.3	2.6	1.4	.0	.2	20.8	
	TOT %	2.1	1.5	1.3	2.0	4.7	7.9	2.6	1.5	.0	.2	23.8	
10+	PCP	.0	.8	.1	.1	.1	.1	.8	.0	.0	.0	.5	
	NO PCP	1.7	.9	.8	1.3	4.3	9.0	4.3	2.1	.0	.6	24.9	
	TOT %	1.7	.9	.8	1.4	4.4	9.2	4.3	2.1	.0	.6	25.4	
TOT OBS													
TOT PCT													
		9.0	4.2	4.9	8.5	26.6	33.4	11.1	4.5	.0	1.7	100.0	2090

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.1	.1	.4	.5	.5	.2	.1	.0	.6	2.6	
	4-10	.4	.5	1.0	1.3	4.6	4.2	1.2	.2	.0	.0	13.5	
	11-21	.1	.2	.2	1.5	6.8	6.6	1.3	.1	.0	.0	16.8	
	22+	.0	.0	.0	.1	1.1	1.6	.2	.0	.0	.0	3.0	
	TOT %	.7	.8	1.3	3.2	12.9	13.0	2.9	.4	.0	.6	35.8	
1/2<1	0-3	.0	.8	.8	.1	.8	.8	.8	.0	.0	.8	.3	
	4-10	.2	.1	.2	.2	.5	.3	.4	.1	.0	.0	1.9	
	11-21	.8	.1	.2	.3	.8	.6	.3	.8	.0	.0	2.3	
	22+	.0	.0	.1	.0	.8	.2	.8	.0	.0	.0	.3	
	TOT %	.2	.2	.5	.6	1.4	1.1	.7	.1	.0	.8	4.8	
1<2	0-3	.8	.0	.0	.0	.8	.0	.0	.8	.0	.2	.3	
	4-10	.1	.1	.1	.8	.2	.3	.1	.1	.0	.0	.9	
	11-21	.0	.2	.1	.2	.4	.3	.1	.0	.0	.0	1.2	
	22+	.8	.8	.1	.1	.1	.1	.0	.8	.0	.0	.5	
	TOT %	.1	.3	.2	.3	.8	.7	.2	.1	.0	.2	2.9	
2<5	0-3	.8	.8	.8	.8	.2	.8	.0	.0	.0	.1	.4	
	4-10	.1	.3	.2	.3	.7	.6	.2	.2	.0	.0	2.6	
	11-21	.1	.2	.2	.3	.8	1.1	.2	.2	.0	.0	3.0	
	22+	.8	.8	.8	.1	.2	.1	.1	.8	.0	.0	.5	
	TOT %	.3	.5	.4	.7	1.8	1.7	.5	.4	.0	.1	6.5	
5<10	0-3	.1	.1	.1	.8	.1	.3	.1	.8	.0	.2	1.0	
	4-10	.7	.6	.7	1.0	1.5	2.5	1.0	.3	.0	.0	8.3	
	11-21	1.0	.6	.5	.6	2.3	4.1	1.3	.8	.0	.0	11.1	
	22+	.1	.1	.1	.2	.6	1.0	.3	.4	.0	.0	2.7	
	TOT %	1.9	1.3	1.3	1.9	4.5	7.9	2.6	1.5	.0	.2	23.1	
10+	0-3	.2	.8	.8	.1	.3	.1	.1	.1	.0	.6	1.6	
	4-10	.7	.5	.5	.7	2.5	3.9	1.7	.7	.0	.0	11.1	
	11-21	.7	.4	.3	.6	1.8	3.1	2.5	1.1	.0	.0	12.3	
	22+	.2	.8	.0	.0	.2	1.0	.1	.3	.0	.0	1.9	
	TOT %	1.8	.9	.8	1.3	4.7	10.1	4.4	2.2	.0	.6	26.9	
TOT OBS													
TOT PCT													
		4.9	4.0	4.5	8.0	26.1	34.7	11.3	4.8	.0	1.7	100.0	2308

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PERIOD: (PRIMARY) 1920-1970
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM $\geq 4/8$) AND
OCCURRENCE OF NM $\leq 5/8$ BY HOUR

HOUR (GMT)	000 149	150 249	300 399	600 999	1000 1999	2000 3499	3500 4999	4000 6499	6500 7999	8000+	TOTAL	NM $\leq 5/8$ ANY HGT	TOTAL OBS
00003	36.5	.7	2.5	5.7	10.7	6.0	2.0	.7	.5	1.7	67.0	33.0	403
06009	37.0	.5	2.9	3.6	10.4	6.3	1.6	.3	1.0	1.0	64.6	35.4	384
12015	34.4	.6	2.9	7.5	11.6	4.9	.6	1.2	1.7	2.0	67.3	32.7	346
18021	34.0	.8	2.4	5.9	12.8	2.4	1.1	.8	.8	2.9	63.9	36.1	374
TOT	535	10	40	85	171	74	20	11	15	29	990	517	1507
PCT	35.5	.7	2.7	5.6	11.3	4.9	1.3	.7	1.0	1.9	65.7	34.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	$\leq 1/2$	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	30.2	4.8	7.7	5.3	26.4	22.6	602
06009	36.6	3.8	7.7	7.4	21.8	28.2	979
12015	35.6	7.5	7.4	5.9	22.2	25.5	644
18021	32.8	3.2	7.4	7.0	22.7	30.9	928
TOT	844	116	68	150	548	626	2353
PCT	35.9	4.9	7.8	6.4	23.3	26.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM $\geq 4/8$) BY HOUR

HOUR (GMT)	≤ 150 $\leq 90YD$	≤ 600 ≤ 1	≤ 1000 ≤ 5	1000+ AND 5+	NM $\leq 5/8$ AND 5+	TOTAL OBS
00003	37.7	43.0	52.9	17.3	29.8	393
06009	37.6	43.1	52.9	15.6	31.5	378
12015	34.4	42.1	52.8	18.1	29.1	337
18021	34.3	40.7	50.8	16.5	32.7	364
TOT	531	622	771	248	453	1472
PCT	36.1	42.3	52.4	16.8	30.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
70/74	.0	.0	.0	.1	.1	.0	.0	.0	2	.1
65/69	.0	.0	.0	.1	.1	.1	.4	.1	11	.8
60/64	.0	.0	.1	.1	.1	.7	2.3	1.2	62	4.5
55/59	.0	.0	.1	.0	.4	2.3	6.7	14.9	332	24.3
50/54	.0	.0	.0	.0	.3	1.2	11.8	33.6	641	46.9
45/49	.0	.0	.0	.0	.1	.4	3.1	17.5	288	21.1
40/44	.0	.0	.0	.0	.0	.0	.3	1.9	30	2.2
TOTAL	.0	.0	.2	.4	14	64	338	945	1367	100.0
PCT	.0	.0	.1	.3	1.0	4.7	24.7	69.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
70/74	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
65/69	.0	.0	.0	.0	.1	.5	.1	.8	.0	.0
60/64	.1	.1	.0	.1	1.3	2.0	.6	.2	.0	.0
55/59	.7	.3	1.1	1.7	7.3	8.4	3.1	.8	.0	.7
50/54	2.6	2.1	2.4	4.0	11.2	16.9	5.4	1.4	.0	.7
45/49	1.6	1.8	1.8	2.5	3.9	9.3	2.2	1.8	.0	.2
40/44	.5	.3	.2	.1	.6	.3	.2	.1	.0	.0
TOTAL	5.4	4.7	5.6	8.4	24.7	33.6	11.7	4.4	.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	62	59	52	46	44	41	52.0	655
06009	65	59	58	51	44	43	40	51.1	601
12015	71	66	61	52	46	44	42	52.7	700
18021	78	70	63	54	47	44	42	54.4	551
TOT	78	65	60	52	46	43	40	52.5	2507

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.8	3.6	21.0	74.6	94	366
06009	.0	.3	.3	2.5	18.8	78.2	94	362
12015	.0	.8	1.1	5.0	26.7	66.7	92	360
18021	.0	1.0	2.0	7.9	33.4	55.7	90	305
TOT	0	6	14	64	343	966	93	1393

PERIOD: (PRIMARY) 1928-1970
(OVER-ALL) 1874-1970

JULY

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIFF	37 40	41 44	43 48	49 52	53 56	57 60	61 64	63 68	69 72	TOT	N FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.1	3	.0	.2
14/16	.0	.0	.0	.1	.0	.1	.3	.0	.0	8	.1	.4
11/13	.0	.0	.1	.2	.5	.7	.4	.2	.1	39	.7	1.3
8/10	.0	.0	.1	.3	.7	.8	.4	.2	.0	45	.9	1.4
7/8	.0	.0	.2	1.8	2.2	1.4	.7	.2	.0	123	2.9	3.3
6	.0	.0	.3	2.3	2.2	.9	.1	.1	.0	111	3.0	2.8
5	.0	.1	.9	3.4	3.0	1.4	.2	.0	.0	172	4.5	4.5
4	.0	.1	1.4	4.0	3.9	1.8	.4	.1	.0	220	5.3	6.3
3	.0	.2	1.8	4.6	4.2	2.0	.2	.0	.0	249	5.3	7.8
2	.0	.2	2.2	5.3	4.2	1.4	.1	.0	.0	257	6.5	7.0
1	.0	.6	3.4	4.1	3.4	.8	.1	.0	.0	236	5.3	7.1
0	.0	.2	2.9	2.9	2.8	.6	.0	.0	.0	180	4.2	5.3
-1	.0	.3	1.6	2.4	1.6	.7	.0	.0	.0	113	2.5	3.5
-2	.0	.2	.7	1.5	.4	.1	.1	.0	.0	57	1.3	1.7
-3	.0	.6	.4	.7	.4	.1	.0	.0	.0	41	1.1	1.1
-4	.1	.2	.4	.4	.1	.1	.0	.0	.0	22	.6	.6
-5	.0	.0	.2	.0	.0	.1	.0	.0	.0	5	.2	.1
-6	.0	.0	.1	.2	.0	.0	.0	.0	.0	6	.3	.1
-7/-8	.0	.1	.0	.0	.1	.1	.0	.0	.0	3	.0	.2
-9/-10	.0	.0	.1	.1	.2	.0	.0	.0	.0	7	.3	.1
-11/-12	.0	.1	.0	.1	.0	.0	.0	.0	.0	3	.0	.2
-14/-16	.0	.0	.0	.1	.0	.0	.0	.0	.0	2	.1	.1
TOTAL	1	48	318	655	570	240	94	14	4	1904	856	1048
PCT	.1	2.5	16.7	34.4	29.9	12.4	2.8	.7	.2	100.0	45.0	55.0

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.8	.3	.8	.2	.0	.0	.0	1.0
1-2	.2	.3	.1	.0	.0	.0	.5	.0	.5	.5	.0	.0	.0	1.0
3-4	.0	.3	.8	.0	.0	.0	1.1	.0	.6	1.3	.0	.0	.0	1.9
5-6	.0	.0	.8	.3	.0	.0	1.1	.0	.0	.3	.0	.0	.0	.3
7	.0	.1	.1	.2	.0	.0	.5	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.2	1.8	.6	.1	.0	4.1	.3	1.9	2.4	.0	.0	.0	4.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	.5	.2	.0	.0	.0	.6
1-2	.0	.3	.4	.0	.0	.0	.7	.1	1.3	.2	.0	.0	.0	1.6
3-4	.0	.1	.5	.0	.0	.0	.6	.0	.9	2.6	.0	.0	.0	3.6
5-6	.0	.0	1.1	.2	.0	.0	1.3	.0	.2	1.7	.5	.0	.0	2.4
7	.0	.0	.2	.2	.2	.0	.5	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	2.2	.3	.4	.0	4.1	.1	2.9	4.8	.6	.0	.0	8.4

PERIOD: (OVER-ALL) 1963-1970

JULY

AREA 0004 SE NEWFOUNDLAND COAST
45.9N 51.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.6	.2	.0	.0	.0	1.8	.4	2.9	.5	.0	.0	.0	3.8
1-2	.2	3.6	2.5	.0	.0	.0	6.4	.3	2.6	1.9	.0	.0	.0	4.8
3-4	.0	3.8	4.6	.5	.0	.0	8.9	.0	2.4	8.9	.7	.0	.0	12.0
5-6	.0	.3	3.5	.8	.2	.0	4.7	.0	1.1	5.0	1.4	.0	.0	7.6
7	.0	.2	2.3	.5	.0	.0	2.9	.0	.0	2.3	1.5	.0	.0	3.8
8-9	.0	.0	1.3	.4	.0	.0	1.7	.0	.0	.8	.5	.0	.0	1.3
10-11	.0	.0	.3	.2	.0	.0	.5	.0	.0	.2	.2	.0	.0	.3
12	.0	.1	.0	.1	.2	.0	.4	.0	.0	.2	.2	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	9.5	14.6	2.5	.3	.0	27.3	.7	9.0	19.7	4.6	.0	.0	34.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.8	.0	.0	.0	.0	1.1	.*	.2	.0	.0	.0	.0	.3	
1-2	.0	.7	.8	.0	.0	.0	1.5	.0	.4	.3	.0	.0	.0	.8	
3-4	.0	1.6	2.8	.1	.0	.0	4.4	.0	.6	.5	.0	.0	.0	1.1	
5-6	.0	.6	1.4	.0	.0	.0	2.0	.0	.0	.5	.2	.0	.0	.7	
7	.0	.0	1.0	.6	.0	.0	1.6	.0	.*	.0	.4	.0	.0	.4	
8-9	.0	.2	.0	.2	.0	.0	.3	.0	.0	.2	.2	.*	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	3.8	6.0	.8	.0	.0	10.9	.*	1.3	1.5	1.1	.*	.0	4.0	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	8.2	.9	.0	.0	.0	12.7	
1-2	1.2	9.7	6.8	.0	.0	.0	17.7	
3-4	.2	10.3	21.8	1.4	.0	.0	33.6	
5-6	.0	2.1	14.4	3.3	.2	.0	20.0	
7	.0	.3	6.1	3.3	.2	.0	9.8	
8-9	.0	.2	2.3	1.2	.3	.0	3.9	
10-11	.0	.0	.5	.3	.0	.0	.8	
12	.0	.2	.2	.6	.2	.0	1.1	
13-16	.0	.0	.0	.2	.2	.0	.3	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.0	30.9	52.8	10.4	.9	.0	100.0	661

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13	16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	9.8	23.8	9.7	3.8	.8	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	661	4
6-7	.0	1.4	6.4	7.9	6.6	2.1	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	336	5
8-9	.0	.1	.5	2.0	1.5	1.5	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	7
10-11	.0	.2	.2	.5	.7	.4	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	7
12-13	.0	.0	.2	.0	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
>13	.0	.0	.0	.2	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
TOTDET	2.6	3.2	5.3	2.2	1.7	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	204	3
TOTAL	53	195	484	298	192	68	22	11	6	1	0	0	0	0	0	0	0	0	0	0	1330	4
PCT	4.0	14.7	36.4	22.4	14.4	5.1	1.7	.8	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1870-1970

AUGUST

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	2.3	1.2	3.4	.0	.0	.0	.0	6.4	.6	.0	9.5	1.2	2.5	.0	79.8
NE	7.1	3.6	3.4	.0	.0	.0	.0	13.8	1.6	.0	17.2	.8	.0	.0	66.6
E	11.7	.7	1.6	.0	.0	.0	.0	14.1	.0	.0	26.7	.0	1.9	.0	37.4
SE	10.1	3.7	2.3	.0	.0	.0	.0	16.1	2.0	.0	35.7	.6	2.8	.0	42.6
S	8.1	1.3	3.0	.0	.0	.0	.0	12.2	2.1	.6	35.2	.6	1.6	.0	47.9
SW	2.4	.7	2.5	.0	.0	.0	.0	5.6	.5	.4	36.0	2.0	1.9	.0	53.8
W	1.1	1.2	1.8	.0	.0	.0	.0	4.1	1.1	.0	21.3	1.5	2.0	.0	70.0
NW	4.1	3.3	2.8	.0	.0	.0	.0	10.2	3.2	.7	11.5	1.5	3.3	.0	70.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	2.6	2.6	.0	.0	.0	.0	5.1	2.6	.0	35.9	5.1	.0	.0	51.3
TOT PCT	4.8	1.6	2.5	.0	.0	.0	.0	8.8	1.3	.3	28.5	1.3	1.9	.0	58.0
TOT OBS:	2236														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA	
00003	5.4	2.1	3.1	.0	.0	.0	.0	10.7	.7	.5	25.3	.9	3.0	.0	59.1	
06009	3.3	1.7	3.7	.0	.0	.0	.0	8.7	1.7	.3	29.7	1.6	1.0	.0	57.0	
12015	4.7	.8	2.3	.0	.0	.0	.0	7.6	1.5	.0	33.3	1.8	1.6	.0	54.2	
18021	5.6	1.4	1.3	.0	.0	.0	.0	8.1	1.1	.2	27.4	1.3	2.3	.0	59.7	
TOT PCT TOT OBS:	4.7 2317	1.5	2.6	.0	.0	.0	.0	8.8	1.3	.3	29.0	1.4	2.0	.0	57.4	

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	3.2	3.3	.6	.1	.0		7.6	12.2	7.4	8.0	6.8	8.9	8.1	6.2	8.8	2.7	
NE	.7	2.5	2.5	.3	.2	.0		6.1	11.5	4.2	3.4	5.7	10.1	6.4	5.3	7.8	11.3	
E	.6	2.1	1.6	.4	.0	.0		4.6	11.2	4.5	4.6	3.9	4.6	4.8	5.7	4.6	7.0	
SE	.6	3.6	3.1	1.2	.1	.0		8.6	12.5	8.6	6.9	7.9	2.6	8.4	11.3	9.7	11.9	
S	.8	7.2	9.0	1.8	.2	*		18.9	13.0	19.8	20.4	19.6	15.2	17.0	15.5	20.6	20.7	
SW	1.4	10.5	14.6	3.4	.1	.0		30.0	13.4	32.4	30.9	30.0	29.3	29.7	29.5	28.3	30.2	
W	.5	6.1	7.1	1.7	.1	.0		15.6	13.3	13.9	16.0	17.7	21.8	16.9	15.1	12.7	14.3	
NW	.2	2.6	2.5	.8	.3	.0		6.5	14.0	7.3	7.0	6.0	7.5	5.8	10.9	9.9	1.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.0							2.0	.0	2.0	2.9	2.5	.0	2.8	.5	1.6	.0	
TOT OBS	194	1030	1189	276	27	1	2717		12.7	305	175	562	87	569	190	347	82	
TOT PCT	7.1	37.9	43.8	10.7	1.0	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	1.6	4.3	1.5	.2	*		7.6	12.2	7.6	7.1	7.6	8.0
NE	1.6	3.4	.9	.2	.1		6.1	11.5	4.0	6.3	6.1	6.2
E	1.1	2.5	.8	.2	.0		4.6	11.2	4.5	4.0	5.0	4.9
SE	2.3	4.1	1.8	.3	*		8.6	12.5	8.2	7.2	9.1	10.0
S	3.2	10.5	4.8	.3	.1		18.9	13.0	20.0	19.0	16.6	20.6
SW	4.6	16.2	8.4	.9	.0		30.0	13.4	32.0	29.9	29.6	28.5
W	2.4	8.4	4.5	.2	*		15.6	13.3	14.4	18.2	16.5	12.9
NW	1.1	3.5	1.2	.6	.1		6.5	14.0	7.2	6.2	7.1	5.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	2.2	2.2	2.2	1.4
TOT OBS	340	1438	651	78	10	2717		12.7	680	649	759	629
TOT PCT	19.9	52.9	24.0	2.9	.4		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1870-1970AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.2	4.3	38.7	43.7	10.6	.6	.0	12.6	100.0	680
06009	2.2	3.9	34.1	49.0	10.3	.6	.0	13.0	100.0	649
12015	2.2	7.2	40.4	39.4	9.0	1.6	.1	12.2	100.0	739
18021	1.4	4.8	38.0	43.7	11.0	1.1	.0	13.0	100.0	629
TOT	95	139	1030	1189	276	27	1	12.7		2717
PCT	2.0	5.1	37.9	43.8	10.2	1.0	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	.4	2.3	3.3	6.1	
NE	.7	.4	1.6	2.6	6.2	
E	.3	.1	.7	3.4	7.1	
SE	.5	.3	1.1	6.3	7.1	
S	2.2	1.1	3.8	13.7	6.6	
SW	7.4	2.9	4.6	15.0	5.5	
W	9.9	2.2	2.9	5.8	4.5	
NW	1.0	.7	1.5	2.6	5.9	
VAR	.0	.0	.0	.0	.0	
CALM	.3	.1	.4	.9	6.1	
TOT OBS	324	142	319	905	1690	5.9
TOT PCT	19.2	8.4	18.9	53.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.5	.1	.3	.6	1.2	1.4	.4	.0	.2	.2	2.2	
NE	.7	.0	.2	.8	.9	.8	.1	.0	*	.2	1.6	
E	1.3	.0	.3	.6	.7	.4	.1	.1	.0	.1	1.0	
SE	1.9	.1	.4	1.4	1.4	1.1	.2	*	.2	*	1.5	
S	6.6	.1	.7	1.6	2.7	1.8	.9	.1	.5	.5	5.3	
SW	8.4	.1	.7	2.5	2.5	1.6	.4	.1	.2	.8	12.6	
W	2.1	.0	.4	.8	1.6	1.0	.5	.1	.3	.3	9.6	
NW	.2	.2	.2	1.0	1.1	.8	.1	.1	*	.1	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.6	.1	.1	.1	.1	.2	.1	.1	.0	.1	.4	
TOT OBS	376	12	56	160	207	152	46	8	24	38	611	1690
TOT PCT	22.2	.7	3.3	9.5	12.2	9.0	2.7	.5	1.4	2.2	36.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			OR				
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.8	3.2	3.4	3.4	3.4	3.4	3.5	3.5
>5000	2.1	3.6	3.8	3.9	3.9	3.9	4.0	4.0
>3500	3.4	5.4	6.1	6.4	6.4	6.4	6.5	6.5
>2000	7.8	13.5	14.5	15.0	15.2	15.2	15.3	15.3
>1000	13.2	23.1	25.8	26.7	27.0	27.1	27.1	27.1
>600	16.6	30.0	34.8	36.0	36.6	36.7	36.8	36.8
>300	17.2	31.5	37.3	38.9	39.6	39.7	40.0	40.0
>150	17.2	32.0	37.9	39.5	40.2	40.4	40.7	40.7
>0	17.4	32.7	39.5	42.7	45.0	48.6	61.4	63.7
TOTAL	304	571	689	745	786	848	1072	1112

TOTAL NUMBER OF OBS: 1746

PCT FREQ NH <5/8: 36.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	19.9	5.8	6.2	5.2	3.1	2.9	5.2	6.5	28.0	1840

PERIOD: (PRIMARY) 1933-1970
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.1	.1	.1	.5	.7	.2	*	.0	*	1.8	
	NO PCP	.2	.6	.6	2.2	5.1	7.2	2.2	.3	.0	.5	19.0	
	TOT %	.3	.7	.7	2.4	5.6	7.9	2.3	.3	.0	.6	20.8	
1/2<1	PCP	.1	.1	*	.0	.2	.1	.0	*	.0	.0	.5	
	NO PCP	.2	.1	.2	.2	.8	1.1	.2	.1	.0	.0	3.0	
	TOT %	.3	.2	.3	.2	1.0	1.2	.2	.1	.0	.0	3.5	
1<2	PCP	.0	.0	*	.1	.2	.1	*	*	.0	.0	.4	
	NO PCP	.1	.1	.2	.2	.7	1.2	.4	.1	.0	.1	3.2	
	TOT %	.1	.1	.3	.3	.9	1.3	.5	.1	.0	.1	3.6	
2<5	PCP	.2	.3	.1	.3	.6	.4	.1	.2	.0	.0	2.2	
	NO PCP	.4	.2	.3	.4	1.1	1.9	.9	.3	.0	.1	5.6	
	TOT %	.6	.5	.4	.8	1.7	2.3	1.0	.5	.0	.1	7.7	
5<10	PCP	.2	.3	.3	.8	.9	.4	.2	.3	.0	.0	3.3	
	NO PCP	2.1	1.6	1.1	2.2	3.9	7.4	4.0	1.8	.0	.2	24.3	
	TOT %	2.2	1.9	1.4	3.0	4.8	7.8	4.2	2.1	.0	.2	27.6	
10+	PCP	*	.1	*	.1	.1	*	*	.1	.0	*	.6	
	NO PCP	3.9	2.3	1.6	2.0	5.8	9.3	7.6	2.8	.0	.7	36.1	
	TOT %	3.9	2.4	1.7	2.2	6.0	9.4	7.7	2.9	.0	.8	36.7	
TOT OBS													2226
TOT PCT													7.3 5.7 4.8 8.8 20.0 29.9 14.9 6.0 .0 1.8 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.1	*	.1	.3	.4	.1	*	.0	.7	1.7	
	4-10	.1	.3	.3	1.0	1.9	2.4	1.1	.3	.0		7.5	
	11-21	.1	.3	.4	.7	2.4	4.2	1.0	*	.0		9.2	
	22+	.0	*	*	.4	.9	.7	*	.0	.0		2.0	
	TOT %	.3	.7	.7	2.2	5.5	7.7	2.3	.3	.0	.7	20.3	
1/2<1	0-3	.0	*	.0	*	.1	*	.0	.0	.0	.0	.2	
	4-10	.1	.1	.2	.1	.3	.5	.1	.1	.0		1.4	
	11-21	.1	.2	*	.1	.4	.5	.1	*	.0		1.4	
	22+	.0	.0	.0	*	.1	.2	.0	.0	.0		.4	
	TOT %	.2	.3	.2	.2	.9	1.2	.2	.1	.0	.0	3.4	
1<2	0-3	*	.1	.1	.0	.0	.0	*	.0	.0	.1	.3	
	4-10	.1	*	.1	.1	.3	.3	.2	*	.0		1.2	
	11-21	.0	.0	.1	.1	.3	.8	.3	.1	.0		1.6	
	22+	.0	*	.1	*	.2	.2	*	.0	.0		.6	
	TOT %	.1	.1	.4	.3	.9	1.3	.6	.1	.0	.1	3.8	
2<5	0-3	*	*	*	.0	*	.1	.0	*	.0	.1	.4	
	4-10	.1	.1	.2	.1	.6	.6	.4	.1	.0		2.1	
	11-21	.2	.3	.2	.5	.9	.9	.5	.2	.0		3.6	
	22+	.2	.1	*	.2	.6	.1	.2	.0	.0		1.4	
	TOT %	.5	.5	.4	.7	1.6	2.1	1.0	.5	.0	.1	7.5	
5<10	0-3	*	.2	.2	.2	.1	.3	.1	.1	.0	.3	1.5	
	4-10	.9	.7	.5	.9	1.3	2.3	1.7	.8	.0		9.1	
	11-21	1.1	.8	.5	1.0	2.5	4.2	1.8	.7	.0		12.6	
	22+	.3	.1	.2	.6	.5	.7	.3	.5	.0		3.2	
	TOT %	2.3	1.8	1.4	2.7	4.5	7.4	4.0	2.0	.0	.3	26.1	
10+	0-3	.2	.3	.2	*	.3	.4	.2	.2	.0	.8	2.4	
	4-10	1.7	1.3	.8	1.3	2.9	3.9	2.4	1.3	.0		15.8	
	11-21	1.7	1.1	.4	.8	2.7	4.6	3.7	1.5	.0		16.5	
	22+	.3	.2	.1	.2	.2	1.3	1.3	.3	.0		4.0	
	TOT %	3.8	2.8	1.6	2.4	6.1	10.1	7.6	3.3	.0	.8	38.6	
TOT OBS													2492
TOT PCT													7.3 6.2 4.7 8.6 19.6 29.8 15.7 6.3 .0 1.9 100.0

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PERIOD: (PRIMARY) 1933-1970
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	20.6	.9	3.2	8.5	12.6	8.5	2.8	.2	1.4	2.3	61.0	39.0	436
06009	29.2	1.1	2.2	9.7	9.5	7.7	1.9	.2	1.1	2.4	64.9	35.1	465
12015	22.2	.7	3.9	9.3	12.5	8.3	3.5	.7	1.9	1.9	64.8	35.2	432
18021	17.6	.4	3.5	10.1	12.3	10.1	2.2	.7	1.1	2.0	60.1	39.9	454
TOT	402	14	97	168	209	155	46	8	24	38	1121	666	1787
PCT	22.5	.8	3.2	9.4	11.7	8.7	2.6	.4	1.3	2.1	62.7	37.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	18.3	2.5	9.5	8.1	29.1	38.5	629
06009	23.3	3.3	3.5	6.5	26.3	37.1	634
12015	24.3	4.0	3.5	7.5	24.2	36.6	708
18021	16.6	3.3	4.6	8.1	25.2	42.1	603
TOT	535	85	97	194	673	990	2574
PCT	20.8	3.3	3.8	7.5	26.1	38.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	21.2	26.9	41.5	23.8	34.7	424
06009	29.8	34.2	47.3	20.7	32.0	459
12015	22.5	29.4	43.6	25.1	31.3	422
18021	18.4	23.4	41.7	23.1	35.1	441
TOT	403	498	761	404	581	1746
PCT	23.1	28.5	43.6	23.1	33.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
70/74	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
65/69	.0	.0	.0	.1	.1	.6	1.0	2.1	62	3.9
60/64	.0	.0	.0	.1	.5	2.5	7.6	13.7	383	24.3
55/59	.0	.0	.0	.1	.6	3.3	13.5	29.1	734	46.7
50/54	.0	.0	.0	.0	.3	1.5	6.7	13.4	345	21.9
45/49	.0	.0	.0	.0	.0	.2	1.3	1.4	45	2.9
40/44	.0	.0	.0	.0	.0	.0	.0	.1	2	.1
TOTAL	0	0	0	5	24	128	475	941	1573	100.0
PCT	.0	.0	.0	.3	1.5	8.1	30.2	59.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.1	.0	.2	.1	.7	2.0	.8	.1	.0	.0
.4	.7	1.0	1.8	6.0	8.0	5.4	.7	.0	.3
3.0	2.2	2.1	4.1	10.0	14.4	7.5	2.5	.0	.8
3.5	2.3	1.2	1.6	3.7	4.8	2.1	2.4	.0	.4
.8	.2	.1	.3	.3	.2	.2	.8	.0	.1
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
7.9	5.4	4.6	7.8	20.8	29.4	16.0	6.5	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	66	64	57	50	47	45	57.1	696
06009	68	65	63	56	50	47	43	56.6	672
12015	75	69	65	58	51	47	46	57.7	771
18021	80	71	67	59	51	48	46	59.1	638
TOT	80	68	65	57	51	47	43	57.6	2777

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.2	1.2	7.1	27.3	64.1	91	410
06009	.0	.0	.7	3.3	26.7	69.3	93	430
12015	.0	.2	1.6	10.8	27.5	59.8	90	425
18021	.0	1.8	2.6	12.8	37.6	45.2	88	383
TOT	0	9	25	136	488	988	91	1648

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1870-1970

AUGUST

AREA 0004 SE NEWFOUNDLAND COAST
46.0N 51.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
20/22	.0	.0	.0	.0	.0	.1	.0	.0	.0	4	.0	.1
17/19	.0	.0	.0	.0	.0	.1	.0	.0	.0	4	.0	.2
14/16	.0	.0	.0	.0	.0	.1	.1	.0	.0	6	.1	.2
11/13	.0	.0	.0	.0	.1	.4	.4	.1	.0	21	.4	.6
9/10	.0	.0	.0	.1	.5	.6	.5	.1	.0	38	.5	1.3
7/8	.0	.0	.0	.9	1.2	1.4	.5	.0	.0	83	1.6	2.5
6	.0	.0	.0	.6	1.5	1.9	.3	.0	.0	78	1.1	2.7
5	.0	.0	.2	.9	3.0	1.6	.3	.1	.0	126	1.8	4.4
4	.0	.0	.3	1.5	3.7	2.0	.3	.0	.0	160	2.7	5.1
3	.0	.0	.4	3.1	5.2	2.1	.6	.0	.0	236	4.4	7.1
2	.0	.0	1.1	4.0	5.1	2.3	.4	.0	.0	265	4.2	8.7
1	.0	.0	1.0	4.9	5.8	2.4	.3	.0	.0	295	4.0	10.4
0	.0	.2	1.1	5.9	4.0	1.7	.1	.0	.0	266	4.0	9.0
-1	.0	.3	1.3	3.6	2.1	.7	.0	.0	.0	164	2.3	5.7
-2	.0	.3	1.2	2.3	1.6	.2	.0	.0	.0	116	1.4	4.3
-3	.0	.2	1.1	1.5	.6	.1	.0	.0	.0	71	.6	2.8
-4	.0	.2	.7	.8	.5	.0	.0	.0	.0	45	.2	2.0
-5	.0	.1	.5	.7	.3	.1	.0	.0	.0	35	.3	1.4
-6	.0	.0	.2	.3	.1	.0	.0	.0	.0	15	.1	.6
-7/-8	.0	.0	.1	.2	.1	.0	.0	.0	.0	10	.2	.3
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
-11/-13	.0	.0	.1	.0	.0	.0	.0	.0	.0	3	.0	.1
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	1	30	195	642	725	354	82	14	3	2046	614	1432
PCT	.1	1.5	9.5	31.4	35.4	17.3	4.0	.7	.1	100.0	30.0	70.0

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.1	.0	.0	.0	.7	.4	.8	.0	.0	.0	.0	1.2
1-2	.1	1.1	.5	.0	.0	.0	1.7	.0	1.1	.5	.0	.0	.0	1.6
3-6	.0	.7	1.0	.0	.0	.0	1.7	.0	.4	.9	.0	.0	.0	1.2
5-6	.0	.2	.9	.3	.0	.0	1.4	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.1	.1	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.7	2.7	.8	.3	.0	6.7	.4	2.3	1.8	.1	.4	.0	4.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.1	.7	.1	.0	.0	.0	1.0
1-2	.0	.8	.0	.0	.0	.0	.8	.0	.9	.6	.0	.0	.0	1.5
3-6	.0	.8	.2	.0	.0	.0	1.0	.0	.6	.6	.0	.0	.0	1.1
5-6	.0	.2	.4	.2	.0	.0	.8	.0	.1	1.4	.6	.0	.0	2.1
7	.0	.0	.0	.1	.0	.0	.1	.0	.1	.4	.5	.0	.0	1.0
8-9	.0	.0	.2	.3	.0	.0	.5	.0	.0	.1	.2	.0	.0	.2
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.2	.0	.0	.4
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	1.0	.8	.1	.0	3.8	.1	2.4	3.4	1.5	.1	.0	7.6

PERIOD: (OVER-ALL) 1963-1970

AUGUST

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.1	.2	.0	.0	.0	1.4	.4	1.7	.8	.0	.0	.0	1.1
1-2	.1	2.5	2.1	.0	.0	.0	4.7	.2	3.8	2.4	.0	.0	.0	6.4
3-4	.1	1.5	4.7	.0	.0	.0	6.3	.8	2.6	8.8	.3	.0	.0	9.7
5-6	.0	.4	3.2	.3	.0	.0	4.1	.0	1.0	4.6	1.4	.0	.0	7.0
7	.0	.2	.9	1.1	.0	.0	2.2	.0	.1	2.5	1.7	.1	.0	4.3
8-9	.0	.0	.2	.3	.1	.0	.6	.0	.2	.9	.4	.0	.0	1.5
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.7	.5	.0	.0	1.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.6	11.2	2.2	.2	.1	19.7	.6	8.4	18.2	4.5	.1	.0	31.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.7	.1	.0	.0	.0	.9	.1	.3	.3	.0	.0	.0	.7	
1-2	.0	2.1	.8	.0	.0	.0	3.0	.0	.4	.3	.0	.0	.0	.7	
3-4	.0	1.5	3.9	.6	.0	.0	6.0	.0	.4	.4	.8	.0	.0	.8	
5-6	.0	.3	2.3	.3	.0	.0	3.1	.0	.2	.8	.1	.0	.0	1.1	
7	.0	.0	1.2	1.2	.1	.0	2.5	.0	.2	.4	.3	.0	.0	1.0	
8-9	.0	.0	.9	.5	.1	.0	1.5	.0	.2	.3	.3	.0	.0	.7	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.1	.0	.2	.1	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.4	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	4.7	9.4	2.8	.2	.0	17.2	.2	1.7	2.4	1.3	.4	.0	6.0	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.8	5.2	.8	.0	.0	.0	9.8	
1-2	.7	12.5	7.2	.0	.0	.0	20.4	
3-4	.2	8.3	18.3	.9	.0	.0	27.8	
5-6	.0	2.5	13.8	3.4	.0	.0	19.7	
7	.0	.7	3.6	5.2	.2	.0	11.7	
8-9	.0	.4	2.7	2.1	.2	.0	5.4	
10-11	.0	.1	.9	1.4	.2	.0	2.7	
12	.0	.0	.2	.2	.6	.0	1.1	
13-16	.0	.0	.0	.6	.4	.0	.9	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.1	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.7	29.7	49.6	19.9	1.9	.1	100.0	846

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	9.6	17.5	8.2	4.1	.8	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	651	4
6-7	.1	1.3	6.0	8.3	7.5	3.7	1.6	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	463	6
8-9	.0	.3	2.2	2.1	1.7	1.3	1.1	.5	.6	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	154	7
10-11	.0	.1	.1	.5	.7	.5	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	7
12-13	.0	.0	.0	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
>13	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
INDEX	2.8	3.0	3.9	3.5	1.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	238	3
TOTAL	61	224	462	358	244	109	53	23	16	5	0	1	1	0	0	0	0	0	0	1557	5
PCT	3.9	14.4	29.7	23.0	15.7	7.0	3.4	1.5	1.0	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1869-1970AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZG PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	4.9	.4	4.3	.0	.0	.0	.0	9.2	.9	.0	7.2	.2	.4	.0	82.1
NE	8.4	1.2	3.3	.0	.0	.0	.0	12.9	1.5	.0	11.0	.5	.0	.0	74.2
E	11.5	.0	4.7	.0	.0	.0	.0	16.3	1.5	.0	18.3	.6	.6	.0	62.8
SE	15.0	.8	3.4	.0	.0	.0	.0	18.4	3.4	.0	28.1	.2	1.1	.0	48.8
S	8.3	1.1	2.5	.0	.0	.0	.0	11.9	2.7	.7	28.5	2.0	1.2	.0	32.9
SW	1.4	.6	2.5	.0	.0	.0	.0	4.6	.7	.2	20.9	.9	.8	.2	71.7
W	1.2	1.9	1.3	.0	.0	.0	.0	4.4	2.6	.0	9.6	.2	1.0	.0	82.3
NW	3.2	3.1	2.0	.0	.0	.0	.0	8.2	2.1	.0	7.3	.1	.0	.0	82.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3	.0	.0	.0	.0	.0	.0	2.3	.0	.0	20.9	7.0	4.7	.0	65.1
TOT PCT	4.9	1.1	2.7	.0	.0	.0	.0	8.6	1.7	.1	16.3	.8	.8	*	71.6
TOT OBS:	2177														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZG PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0000	4.1	1.0	2.9	.0	.0	.0	.0	8.1	.9	.2	16.3	.9	.5	.0	73.2
0600	3.3	1.9	3.5	.0	.0	.0	.0	10.4	3.4	.4	13.5	.5	.9	.2	70.8
1200	4.9	.9	2.4	.0	.0	.0	.0	8.2	1.6	.0	20.1	1.3	.4	.0	68.5
1800	3.0	.7	1.7	.0	.0	.0	.0	7.5	1.1	.0	16.0	.6	2.1	.0	72.8
TOT PCT	4.8	1.2	2.6	.0	.0	.0	.0	8.5	1.7	.1	16.5	.8	.9	*	71.3
TOT OBS:	2236														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	3.6	5.4	2.0	.2	.0		11.7	14.9		10.9	10.6	13.8	18.4	11.1	12.5	10.5	7.4
NE	.2	2.7	3.3	.8	*	.0		7.0	13.2		10.0	5.6	6.4	5.6	5.5	3.6	8.2	7.4
E	.4	2.5	2.3	.5	.0	.0		5.7	12.1		6.2	3.3	6.1	4.0	5.4	6.8	5.7	6.3
SE	.4	2.3	2.9	.5	.1	.0		6.1	12.7		6.5	5.7	5.0	6.8	6.5	6.6	6.7	4.2
S	.5	4.5	6.3	2.0	.1	.1		13.5	14.1		13.2	12.9	12.8	13.1	13.7	13.8	14.8	8.8
SW	.7	7.5	12.9	3.5	.5	.1		25.2	14.7		27.4	25.0	22.3	21.5	23.6	26.6	26.7	32.7
W	.4	5.6	8.6	9.0	.4	*		18.1	15.1		16.5	22.4	19.8	17.4	18.8	17.2	16.9	16.5
NW	.4	3.2	4.8	1.7	.5	.0		10.7	15.6		8.0	13.2	11.5	12.1	12.6	11.6	9.0	13.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0		1.3	1.1	2.4	1.0	2.9	1.4	1.5	2.8
TOT OBS	132	898	1308	995	53	5	2811		14.2		553	174	553	99	552	220	589	71
TOT PCT	5.4	31.9	46.5	14.1	1.9	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	1.8	5.6	3.2	1.1	*		11.7	14.9	10.8	14.5	11.5	10.2
NE	1.3	3.6	1.8	.3	.0		7.8	13.2	8.9	6.3	5.0	8.1
E	1.4	2.8	1.4	.1	.0		5.7	12.1	5.5	5.8	5.8	5.8
SE	1.2	3.1	1.7	.2	.0		6.1	12.7	6.3	5.3	6.5	6.4
S	2.0	7.0	3.7	.7	.1		13.5	14.1	13.1	12.8	13.7	14.1
SW	3.6	12.3	7.9	1.3	.2		25.2	14.7	26.8	22.2	24.4	27.3
W	2.3	8.8	5.7	1.3	.1		18.1	15.1	13.0	19.4	18.3	16.8
NW	1.6	4.7	3.1	1.3	*		10.7	15.6	9.3	11.6	12.3	9.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0	1.2	2.1	2.5	1.7
TOT OBS	481	1345	803	172	10	2811		14.2	727	652	772	660
TOT PCT	17.1	47.8	28.6	6.1	.4		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	1.2	4.0	34.8	46.4	11.4	2.1	.1	13.7	100.0	727
06009	2.1	2.9	30.5	48.3	14.3	1.7	.2	14.4	100.0	632
12015	2.5	3.6	30.7	47.7	13.9	1.6	.1	14.1	100.0	772
18021	1.7	3.5	31.7	43.6	17.0	2.3	.3	14.6	100.0	660
TOT	93	99	898	1308	395	53	5	14.2		2811
PCT	1.9	3.5	31.9	46.5	14.1	1.9	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	1.2	3.5	4.9		5.6
NE	1.8	.9	1.3	4.0		5.6
E	.9	.5	.8	3.8		6.3
SE	.7	.3	1.1	3.7		6.3
S	2.2	.7	2.0	8.2		6.3
SW	3.8	2.4	4.6	11.0		9.4
W	7.3	2.3	4.2	4.9		4.2
NW	3.3	1.1	2.7	3.4		4.8
VAR	.0	.0	.0	.0		.0
CALM	.8	.1	.4	.6		4.4
TOT OBS	429	163	352	737	1701	9.4
TOT PCT	25.2	9.6	20.7	44.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	294	599	999	1999	3499	4999	6499	7999			
N	.6	.1	.5	1.2	2.9	1.9	.2	.1	.1	.1	4.4	
NE	.8	.1	.3	1.3	1.3	.7	.2	.2	.1	.1	3.2	
E	.8	.1	.4	.7	1.0	.9	.2	.1	.0	.0	1.9	
SE	1.0	.0	.4	.7	1.0	.7	.1	.1	.1	.1	1.9	
S	3.0	.1	.6	1.3	1.6	1.0	.5	.0	.4	.4	4.2	
SW	3.6	.1	.7	1.9	3.2	1.3	.8	.3	.4	.4	11.1	
W	1.2	.1	.1	1.0	2.6	1.1	.4	.2	.2	.4	11.6	
NW	.3	.1	.2	.9	1.7	1.1	.1	.4	.2	.1	5.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.1	.2	.1	.0	.0	.1	.0	1.2	
TOT OBS	197	9	59	192	264	190	44	23	27	27	735	1701
TOT PCT	11.6	.4	3.2	8.9	15.5	8.8	2.6	1.4	1.6	1.6	44.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.4	3.0	3.1	3.1	3.2	3.2	3.2	3.2
>5000	3.3	4.3	4.4	4.4	4.5	4.5	4.5	4.5
>3500	4.7	6.7	7.1	7.1	7.2	7.2	7.2	7.2
>2000	9.9	14.5	15.5	15.6	15.8	15.8	15.9	15.9
>1000	18.0	27.6	30.1	30.8	31.0	31.0	31.1	31.1
>600	22.1	34.2	38.1	39.4	39.7	39.9	40.1	40.2
>300	22.4	35.3	40.4	42.2	42.7	43.0	43.2	43.3
>150	22.4	35.3	40.6	42.5	43.1	43.4	43.6	43.7
>0	22.5	35.9	41.5	44.5	45.9	47.9	53.2	55.0
TOTAL	386	616	712	744	787	822	912	943

TOTAL NUMBER OF OBS: 1715

PCT FREQ NH <5/8: 45.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	10.0	9.1	7.5	5.6	3.8	4.1	6.6	9.7	29.1	1809

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.1	.3	.2	.1	.0	.0	.0	.7		
	NO PCP	.2	.4	.6	.8	2.8	3.1	1.1	.4	.0	.2	9.8		
	TOT %	.2	.4	.7	.9	3.1	3.3	1.2	.5	.0	.2	10.4		
1/2<1	PCP	.0	.0	.0	.1	.2	.1	.1	.0	.0	.0	.6		
	NO PCP	.3	.1	.3	.4	.3	.4	.2	.0	.0	.1	2.3		
	TOT %	.3	.1	.3	.5	.5	.7	.3	.1	.0	.1	2.9		
1<2	PCP	.1	.4	.2	.1	.2	.0	.0	.1	.0	.0	1.1		
	NO PCP	.2	.1	.1	.2	.4	.6	.1	.1	.0	.0	1.8		
	TOT %	.3	.5	.3	.3	.5	.6	.2	.2	.0	.0	2.9		
2<5	PCP	.3	.2	.4	.3	.4	.2	.1	.1	.0	.0	1.9		
	NO PCP	.5	.2	.1	.4	.4	1.1	.6	.4	.0	.3	3.9		
	TOT %	.8	.4	.4	.7	.8	1.3	.7	.5	.0	.3	5.8		
5<10	PCP	.4	.3	.3	.5	.5	.4	.3	.4	.0	.0	3.4		
	NO PCP	2.8	1.5	1.2	1.1	3.3	6.6	4.2	2.4	.0	.3	23.3		
	TOT %	3.4	1.8	1.6	1.6	3.8	7.1	4.5	2.8	.0	.3	26.9		
10+	PCP	.1	.1	.1	.1	.1	.2	.2	.1	.0	.0	.9		
	NO PCP	7.0	4.3	2.7	2.0	4.4	11.2	11.6	6.0	.0	1.0	50.3		
	TOT %	7.1	4.4	2.7	2.1	4.5	11.4	11.8	6.2	.0	1.0	51.2		
TOT OBS														2162
TOT PCT		12.0	7.6	6.0	6.0	13.2	24.3	18.6	10.2	.0	2.0	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.2	.0	.1	.2	.0	.1	.0	.2	.8	
	4-10	.1	.2	.4	.6	1.0	1.1	.4	.2	.0	.0	4.0	
	11-21	.0	.1	.0	.3	1.5	1.6	.6	.2	.0	.0	4.3	
	22+	.0	.0	.0	.1	.5	.6	.1	.0	.0	.0	1.3	
	TOT %	.2	.3	.6	.9	3.1	3.4	1.1	.5	.0	.2	10.4	
1/2<1	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.3	
	4-10	.1	.0	.1	.0	.2	.3	.1	.0	.0	.0	.8	
	11-21	.2	.1	.1	.2	.2	.3	.1	.0	.0	.0	1.3	
	22+	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.3	.1	.3	.4	.5	.7	.3	.1	.0	.1	2.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	4-10	.1	.1	.0	.0	.1	.2	.0	.1	.0	.0	.6	
	11-21	.1	.2	.2	.3	.3	.2	.1	.0	.0	.0	1.3	
	22+	.0	.2	.0	.1	.1	.2	.0	.0	.0	.0	.6	
	TOT %	.2	.4	.3	.3	.5	.6	.2	.2	.0	.0	2.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	
	4-10	.3	.1	.1	.1	.2	.4	.2	.1	.0	.0	1.3	
	11-21	.3	.2	.3	.3	.5	.8	.4	.1	.0	.0	2.9	
	22+	.2	.1	.1	.3	.3	.2	.1	.2	.0	.0	1.5	
	TOT %	.7	.4	.5	.7	1.0	1.4	.7	.4	.0	.2	6.2	
5<10	0-3	.2	.0	.1	.0	.1	.0	.1	.1	.0	.3	.8	
	4-10	.8	.6	.6	.6	1.1	1.6	1.4	.5	.0	.0	7.2	
	11-21	1.6	.8	.7	1.0	2.0	3.7	1.7	1.2	.0	.0	12.5	
	22+	.7	.3	.2	.1	.7	1.4	1.2	.9	.0	.0	5.4	
	TOT %	3.2	1.7	1.5	1.7	3.8	6.7	4.3	2.7	.0	.3	25.9	
10+	0-3	.3	.1	.2	.2	.3	.4	.1	.3	.0	1.0	2.8	
	4-10	2.3	1.9	1.2	1.1	1.8	3.3	3.1	2.2	.0	.0	17.0	
	11-21	3.5	2.0	1.2	1.0	2.1	6.3	5.9	3.4	.0	.0	25.6	
	22+	1.2	.8	.5	.0	.5	1.7	2.1	.8	.0	.0	6.7	
	TOT %	7.3	4.1	2.8	2.3	4.6	12.1	11.2	6.6	.0	1.0	52.1	
TOT OBS													2478
TOT PCT		11.9	7.1	5.9	6.4	13.5	24.9	17.9	10.5	.0	1.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM 34/8) AND
OCCURRENCE OF NM 45/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM 45/8 ANY HGT	TOTAL OBS
0000	11.3	.5	2.5	8.8	13.8	7.7	2.0	1.1	1.4	.7	49.7	30.3	443
0600	13.1	.4	2.0	8.7	15.4	8.9	2.4	.4	1.3	1.6	52.3	47.7	449
1200	12.6	.2	3.9	7.5	16.7	10.4	3.6	1.9	1.9	1.9	60.6	39.4	414
1800	8.7	.4	4.2	10.7	14.9	9.8	2.2	1.8	1.6	2.2	56.2	43.8	490
TOT PCT	200 11.4	7 .4	95 3.1	197 8.9	266 15.1	191 8.8	45 2.8	23 1.3	27 1.3	28 1.6	959 54.8	797 49.4	1756 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	10.2	2.9	3.7	4.9	26.9	51.8	647
0600	9.2	1.9	2.9	5.8	24.6	55.5	618
1200	13.1	3.2	2.1	7.1	26.8	47.8	665
1800	9.4	2.8	2.6	7.1	24.9	53.2	607
TOT	267	69	69	198	655	1319	2937
PCT	10.9	2.7	2.7	6.2	25.8	52.0	100.0

TABLE 12

CUMULATIVE PCT PROB OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM 34/8) BY HOUR

HOUR (GMT)	<150 450 FT	<1000 CL	<1000 45	1000+ AND 34	NM 45/8 AND 34	TOTAL OBS
0000	11.5	14.5	26.1	24.2	49.7	433
0600	13.0	16.7	27.6	26.5	49.9	438
1200	12.3	17.4	30.2	31.2	50.6	407
1800	8.7	14.6	26.6	26.6	42.8	437
TOT	195	271	482	473	760	1715
PCT	11.4	19.8	28.1	27.6	44.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.1	.0	.1	.1	.2	.2	10	.7
60/64	.0	.0	.0	.1	.8	1.1	2.2	4.4	130	8.6
55/59	.0	.0	.1	.3	1.3	5.8	13.3	17.5	579	38.3
50/54	.0	.1	.0	.3	3.2	6.6	14.9	15.0	606	40.1
45/49	.0	.0	.1	.1	1.0	2.7	3.8	3.6	170	11.2
40/44	.0	.0	.0	.0	.2	.3	.2	.3	16	1.1
35/39	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	1	4	10	100	291	524	622	1512	100.0
PCT	.0	.1	.3	.7	6.6	19.2	34.7	41.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

M	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.0	.0	.4	.1	.1	.0	.0
.2	.1	.4	.7	2.3	3.0	1.7	.1	.0	.1
2.1	2.1	2.1	2.2	6.2	12.1	8.5	2.3	.0	.7
8.2	3.4	2.8	2.8	4.6	7.7	7.2	4.7	.0	.7
3.4	2.8	.8	.3	.3	.6	.9	2.0	.0	.2
.4	.8	.0	.0	.0	.2	.1	.2	.0	.1
.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
12.3	8.4	6.2	6.0	13.3	24.0	18.6	9.3	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	70	63	60	54	47	45	40	54.0	734
0600	69	62	60	53	46	43	39	53.1	662
1200	70	65	62	55	47	44	39	55.1	777
1800	72	67	64	56	48	45	39	56.0	688
TOT	72	65	62	55	47	44	39	54.6	2841

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.5	4.7	14.0	37.0	43.8	67	422		
0600	.0	1.0	6.1	15.7	35.4	41.8	86	407		
1200	.0	1.1	6.7	14.6	31.3	46.4	87	371		
1800	.0	1.4	6.3	23.1	33.6	33.6	84	360		
TOT	0	15	100	260	537	648	86	1560		

SEPTEMBER

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1869-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.1	.0	.1	.0	2	.0	.1
11/13	.0	.0	.0	.0	.1	.2	.2	.1	.0	17	.3	.6
9/10	.0	.0	.0	.2	.2	.6	.3	.1	.0	25	.4	.9
7/8	.0	.0	.0	.2	.8	.6	.8	.1	.1	69	.9	2.7
6	.0	.0	.0	.3	.3	1.7	.5	.1	.0	60	.9	2.2
5	.0	.0	.1	.6	1.4	1.2	.5	.1	.0	74	.6	3.2
4	.0	.0	.1	.9	2.0	2.4	.8	.1	.0	120	1.4	4.9
3	.0	.0	.1	.6	4.6	3.9	.7	.0	.0	177	1.9	7.4
2	.0	.1	.4	2.2	4.2	3.9	.8	.0	.0	221	3.0	8.6
1	.0	.0	.4	2.0	4.3	3.7	.9	.0	.0	204	1.9	8.8
0	.0	.1	.6	3.3	5.1	3.1	.3	.0	.0	238	2.2	10.3
-1	.0	.0	.7	3.3	4.1	1.8	.2	.0	.0	188	1.3	6.9
-2	.0	.0	.8	2.7	2.9	1.0	.1	.1	.0	143	.6	6.9
-3	.0	.1	.9	2.4	2.2	.4	.0	.0	.0	116	.4	5.7
-4	.0	.0	.8	2.6	.9	.2	.0	.0	.0	86	.3	4.2
-5	.0	.1	.8	1.0	1.0	.1	.0	.0	.0	58	.2	2.8
-6	.0	.2	.8	1.2	.5	.1	.0	.0	.0	52	.0	2.7
-7/-8	.1	.2	.5	.6	.6	.1	.0	.0	.0	39	.1	1.9
-9/-10	.0	.1	.4	.2	.0	.0	.0	.0	.0	13	.0	.7
-11/-19	.0	.1	.2	.1	.1	.1	.0	.0	.0	9	.1	.4
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	16	164	466	882	470	117	14	2	1912	316	1596
PCT	.1	.8	7.5	24.4	35.7	24.6	6.1	.7	.1	100.0	16.5	83.5

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
1-2	.3	.3	.7	.0	.0	.0	.8	.1	.9	.4	.0	.0	.0	2.5
3-4	.0	1.1	.7	.0	.0	.0	3.0	.0	.3	1.5	.0	.0	.0	1.8
5-6	.0	.8	2.3	.0	.0	.0	3.3	.0	.5	1.8	.1	.0	.0	2.4
7	.0	.1	.8	.9	.0	.0	1.4	.0	.0	.7	.5	.0	.0	1.2
8-9	.0	.0	.3	.2	.1	.0	.8	.0	.0	.3	.7	.0	.0	1.0
10-11	.0	.1	.3	.1	.1	.0	.9	.0	.0	.1	.1	.0	.0	.1
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.1	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.1	7.3	1.8	.3	.0	12.8	.7	3.5	4.8	1.6	.0	.0	10.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
1-2	.3	.3	.0	.0	.0	.0	.8	.3	1.0	.3	.0	.0	.0	1.6
3-4	.0	1.4	.3	.0	.0	.0	1.7	.1	1.1	.1	.0	.0	.0	1.4
5-6	.0	.4	.8	.0	.0	.0	1.2	.0	.3	1.6	.1	.0	.0	2.1
7	.0	.1	.8	.3	.0	.0	1.2	.0	.0	1.2	.1	.0	.0	1.7
8-9	.0	.0	.4	.1	.0	.0	.5	.0	.0	.7	.2	.0	.0	.9
10-11	.0	.0	.1	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.3	2.7	.3	.0	.0	6.0	.3	2.4	4.2	.6	.0	.0	7.6

PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

TABLE 10 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.1	.0	.0	.0	.3	.1	1.1	.0	.0	.0	.0	1.3
1-2	.0	2.1	.6	.0	.0	.0	2.7	.0	1.9	1.3	.0	.0	.0	3.2
3-4	.1	1.3	2.9	.3	.0	.0	4.7	.0	1.8	3.2	.3	.0	.0	5.3
5-6	.0	.2	.9	.4	.0	.0	1.6	.0	.2	2.9	1.1	.0	.0	4.3
7	.0	.0	.6	1.5	.0	.0	2.0	.0	.1	2.2	.6	.0	.0	2.9
8-9	.0	.0	.3	.2	.0	.0	.5	.0	.0	1.0	.8	.1	.0	2.0
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.3	.3	.1	.0	.9
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.1	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.6	5.5	2.8	.0	.0	12.2	.1	5.2	11.5	3.9	.3	.1	21.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.5	.1	.0	.0	.0	.6	.1	.5	.1	.0	.0	.0	.8	
1-2	.0	1.9	.6	.0	.0	.0	2.5	.3	1.6	.3	.0	.0	.0	2.2	
3-4	.0	1.8	4.5	.2	.0	.0	6.5	.0	.4	2.4	.1	.0	.0	2.9	
5-6	.0	.1	1.2	.2	.0	.0	1.6	.0	.1	1.0	.0	.0	.0	1.1	
7	.0	.0	1.7	1.4	.1	.0	3.3	.0	.0	1.4	.7	.0	.0	2.1	
8-9	.0	.0	.1	.6	.0	.0	.7	.0	.0	.3	.0	.6	.0	1.1	
10-11	.0	.0	.3	.3	.0	.0	.6	.0	.0	.1	.6	.0	.0	.8	
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.3	8.6	2.9	.4	.0	6.2	.4	2.5	5.9	2.0	.7	.0	11.4	97.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.4	4.7	1.0	.0	.0	.0	10.0	
1-2	1.1	12.9	4.2	.0	.0	.0	18.2	
3-4	.3	7.1	18.9	1.1	.0	.0	27.4	
5-6	.0	1.8	12.3	2.9	.0	.0	17.0	
7	.0	.3	8.3	4.3	.1	.0	14.1	
8-9	.0	.0	2.7	2.7	.8	.0	6.3	
10-11	.0	.1	1.2	2.2	.3	.0	3.8	
12	.0	.0	.1	.8	.1	.0	1.1	
13-16	.0	.0	.5	.5	.1	.0	1.2	
17-19	.0	.0	.4	.1	.1	.0	.7	
20-22	.0	.0	.0	.1	.0	.1	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.7	26.8	49.8	19.9	1.6	.1	100.0	731

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	7.9	14.0	7.4	3.3	1.5	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	347	4
6-7	.1	1.0	3.7	8.0	7.2	3.0	2.1	.9	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	427	6
8-9	.0	.3	1.5	2.2	4.0	2.8	1.3	.9	1.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	219	8
10-11	.0	.0	.2	.7	.8	1.0	.8	.5	.3	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	70	9
12-13	.0	.0	.5	.2	.3	.2	.4	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	28	8
>13	.0	.0	.0	.0	.1	.2	.2	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	13	11
INDEX	2.4	1.8	4.0	1.8	1.7	1.1	.7	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	214	4
TOTAL	3.8	16.8	39.2	30.8	26.4	14.8	8.5	4.1	3.1	1.2	.6	.3	.2	.0	.0	.0	.0	.0	.0	1518	5
PCT	3.8	11.1	25.8	20.3	17.4	9.7	5.6	2.7	2.0	.8	.4	.2	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1873-1970

OCTOBER

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	6.7	2.2	2.3	.0	.6	.0	.0	11.9	2.2	.0	8.2	.3	.0	.0	77.4
NE	23.1	3.6	4.6	.0	.4	.0	.0	31.7	2.1	.0	11.7	1.3	.0	.0	32.4
E	17.6	3.2	6.4	.0	.0	.0	.0	26.3	2.3	.0	18.3	1.6	.9	.0	50.7
SE	15.3	1.8	6.7	.0	.0	.0	.0	23.7	3.5	.0	16.5	.9	1.7	.0	53.8
S	10.4	1.7	3.4	.0	.0	.0	.0	13.2	4.3	.0	23.2	.9	1.6	.0	54.9
SW	3.1	.9	1.6	.0	.0	.0	.0	3.4	2.5	.0	20.1	.3	.4	.0	71.3
W	2.7	2.3	1.1	.0	.1	.0	.4	6.1	1.8	.6	6.1	.1	2.1	.0	83.4
NW	3.6	3.9	1.3	.0	1.1	.0	.0	9.5	4.4	.3	3.6	.2	.3	.3	81.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39.3	.0	3.6	.0	57.1
TOT PCT	6.9	2.2	2.4	.0	.3	.0	.1	11.6	2.8	.2	13.0	.3	1.1	*	70.9
TOT OBS:	2173														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
00003	7.9	2.4	3.4	.0	.3	.0	.3	14.1	2.1	.2	12.2	.3	.9	.2	70.0
06009	8.2	1.9	3.6	.0	.4	.0	.0	13.5	2.7	.6	11.8	.6	.8	.0	70.3
12015	5.0	2.2	1.4	.0	.2	.0	.0	8.6	2.4	.0	12.4	.0	.7	.0	75.8
18021	6.9	2.3	2.3	.0	.2	.0	.0	11.7	4.4	.0	14.9	.8	1.9	.0	66.3
TOT PCT	7.0	2.2	2.7	.0	.3	.0	.1	11.9	2.9	.2	12.8	.3	1.0	*	70.7
TOT OBS:	2210														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	2.6	4.7	2.4	.8	*		10.8	17.6		11.0	12.9	10.3	7.0	10.3	9.6	11.3	16.3
NE	.1	1.8	2.2	1.2	.4	.0		5.7	16.0		6.4	7.3	5.0	6.7	5.4	4.9	5.2	7.1
E	.4	1.5	2.1	.6	.1	.0		4.7	13.3		5.1	4.8	4.0	4.9	4.4	3.2	5.2	7.6
SE	.3	2.4	2.3	1.0	.2	.0		6.2	14.5		8.2	4.7	5.9	6.4	6.2	7.3	4.8	2.6
S	.3	3.6	6.2	2.5	.5	*		13.1	16.1		12.9	11.0	11.6	14.5	13.9	14.6	13.9	12.4
SW	.6	5.3	10.6	3.8	.5	*		20.8	15.6		20.3	21.3	20.8	18.6	18.2	21.5	23.2	25.3
W	.2	4.8	10.5	5.8	1.7	.1		23.1	18.5		22.7	24.3	24.5	18.9	23.1	24.7	22.3	17.9
NW	.2	3.2	7.0	2.9	1.0	.1		14.3	17.7		11.4	12.6	16.5	21.8	16.7	13.4	13.2	10.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0		1.9	1.1	1.5	1.2	1.7	.9	.9	.0
TOT OBS	106	716	1301	972	146	8	2849		16.3		566	177	344	46	587	219	585	83
TOT PCT	3.7	25.1	45.7	20.1	5.1	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	1.5	4.1	3.5	1.5	.3			10.8	17.6		11.4	9.9	10.1	11.9
NE	.9	2.6	1.4	.6	.1			5.7	16.0		6.7	5.2	5.3	5.4
E	1.1	2.2	1.1	.2	*			4.7	13.3		5.0	4.1	4.1	5.5
SE	1.1	2.9	1.6	.6	.1			6.2	14.5		7.4	6.0	6.5	4.6
S	1.8	6.0	4.2	1.1	.2			13.1	16.1		12.4	12.0	14.1	13.7
SW	2.4	9.6	7.4	1.3	.2			20.8	15.6		20.6	20.3	19.1	23.5
W	1.5	9.2	8.3	3.4	.4			23.1	18.5		23.1	23.7	23.5	21.8
NW	1.2	5.8	5.2	1.9	.2			14.3	17.7		11.7	17.2	15.8	12.8
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	1.4							1.4	.0		1.7	1.4	1.5	.7
TOT OBS	361	1211	934	302	41	2849			16.3		743	630	806	670
TOT PCT	12.7	42.5	32.8	10.6	1.4			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1873-1970

OCTOBER

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.7	2.7	27.1	45.8	19.0	3.2	.5	15.8	100.0	743
06009	1.4	2.1	25.7	45.7	20.5	4.4	.2	16.2	100.0	630
12015	1.3	2.0	24.2	46.3	20.1	5.8	.1	16.7	100.0	806
18021	.7	2.7	23.6	44.8	20.9	7.0	.3	17.2	100.0	670
TOT	39	67	716	1301	572	146	8	16.5		2849
PCT	1.4	2.4	25.1	45.7	20.1	5.1	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL CLOUD OBS	MEAN COVER
N	1.5	1.5	3.3	4.4		5.8
NE	.4	.4	1.0	3.8		6.8
E	.4	.1	.8	3.9		7.0
SE	.5	.2	.4	4.3		7.0
S	1.1	1.0	2.1	8.5		6.7
SW	5.6	1.7	4.6	8.6		5.2
W	6.7	3.6	7.2	5.9		4.8
NW	2.9	2.0	4.5	4.9		5.3
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.2	.7		5.4
TOT OBS	330	180	404	783	1697	5.7
TOT PCT	19.4	10.6	23.8	46.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH) >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION												
	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	290	599	999	1999	3499	4999	6499	7999			
N	.8	.1	.4	.9	2.2	2.1	.4	.0	.1	.1	3.7	
NE	.5	.1	.2	1.0	1.3	1.0	.3	.1	.0	.0	1.1	
E	.9	.0	.2	.7	1.4	.5	.1	.0	.1	.1	1.3	
SE	1.1	.1	.6	.7	.8	.5	.3	.1	.0	.1	1.3	
S	2.7	.7	.5	1.6	2.6	1.0	.5	.3	.2	.3	2.9	
SW	3.2	.1	.5	1.6	2.5	1.8	.4	.1	.3	.3	9.7	
W	1.2	.2	.3	1.1	3.5	3.7	1.0	.1	.4	.4	12.5	
NW	.3	.0	.4	1.2	3.7	2.2	.3	.2	.1	.1	5.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.0	.0	.2	.1	.1	.1	.0	.0	.4	
TOT OBS	188	14	49	149	309	220	54	16	18	22	658	1697
TOT PCT	11.1	.4	2.9	8.8	18.2	13.0	3.2	.9	1.1	1.3	38.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NH)					= OR >50YD	= OR >0
				= OR >1	= OR >1/2	= OR >1/4				
= OR >6500	1.4	2.2	2.3	2.3	2.3	2.3	2.3	2.3		2.3
= OR >5000	1.8	3.1	3.2	3.2	3.2	3.2	3.2	3.2		3.2
= OR >3500	3.9	6.1	6.3	6.3	6.3	6.3	6.3	6.3		6.3
= OR >2000	10.7	18.3	19.0	19.1	19.3	19.3	19.4	19.4		19.4
= OR >1000	20.8	35.0	36.8	37.0	37.4	37.6	37.7	37.7		37.7
= OR >600	24.5	41.8	44.7	45.6	46.2	46.5	46.7	46.7		46.7
= OR >300	24.9	43.1	46.7	48.0	49.0	49.4	49.6	49.6		49.6
= OR >150	25.2	43.6	47.3	48.7	49.7	50.1	50.4	50.4		50.4
= OR >0	25.2	44.3	49.2	51.6	52.8	56.2	60.6	61.4		61.4
TOTAL	431	757	840	841	919	968	1035	1049		

TOTAL NUMBER OF OBS: 1708

PCT FREQ NH <5/8: 38.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
13.8	5.9	7.2	6.0	5.0	4.7	9.5	7.6	29.8	10.5	1811

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1973-1970

OCTOBER

AREA 0004 SE NEWFOUNDLAND COAST
48.9N 51.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	.2	.1	.1	.0	*	.0	.0	.3	
	NO PCP	.5	.3	.4	.6	1.9	2.4	.8	.3	.0	.3	7.6	
	TOT %	.5	.4	.3	.8	2.0	2.4	.8	.3	.0	.3	8.0	
1/2<1	PCP	.1	.2	.1	.1	.2	.2	.1	*	.0	.0	1.1	
	NO PCP	.0	.1	.1	.3	.4	.6	.2	.1	.0	.1	1.9	
	TOT %	.1	.3	.2	.4	.6	.8	.3	.2	.0	.1	3.0	
1<2	PCP	.2	.3	.1	.2	.1	.1	.0	*	.0	.0	1.1	
	NO PCP	.1	.1	.1	.2	.3	.3	.2	.0	.0	*	1.3	
	TOT %	.3	.4	.2	.4	.4	.3	.2	*	.0	*	2.3	
2<5	PCP	.1	.3	.2	.4	.6	.3	.1	.1	.0	.0	2.1	
	NO PCP	.2	.2	.4	.3	.7	.6	.4	.3	.0	*	3.2	
	TOT %	.3	.5	.6	.8	1.3	.9	.6	.4	.0	*	5.3	
5<10	PCP	.6	.6	.7	.6	.8	.4	.8	.9	.0	.0	5.4	
	NO PCP	3.3	1.3	1.0	1.5	3.2	5.6	6.8	4.0	.0	.3	26.9	
	TOT %	4.0	1.9	1.7	2.1	4.0	6.0	7.6	4.9	.0	.3	32.4	
10+	PCP	.3	.3	.2	*	.0	.1	.3	.3	.0	.0	1.7	
	NO PCP	9.5	1.8	1.6	1.9	3.9	10.0	14.0	8.2	.0	.5	47.3	
	TOT %	9.8	2.1	1.9	1.9	3.9	10.1	14.4	8.5	.0	.5	49.0	
TOT OBS													2197
TOT PCT		10.9	5.3	5.1	6.2	12.3	20.5	23.9	14.3	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	*	*	*	.1	.0	*	.0	.3	.6	
	4-10	.2	.2	.3	.3	.5	.4	.2	.2	.0		2.4	
	11-21	.2	.1	.1	.3	1.4	1.3	.4	.0	.0		4.0	
	22+	.0	.0	*	.1	.1	.4	.1	.0	.0		.8	
	TOT %	.4	.3	.4	.7	2.1	2.3	.8	.3	.0	.3	7.7	
1/2<1	0-3	.0	.0	*	*	.0	.0	.0	*	.0	.2	.3	
	4-10	.0	.1	*	.1	.1	.2	.0	.0	.0		.3	
	11-21	.0	.1	.1	.1	.2	.5	.2	.1	.0		1.2	
	22+	.1	.1	*	.1	.3	.1	.1	.0	.0		.8	
	TOT %	.1	.3	.2	.4	.6	.7	.3	.2	.0	.2	2.9	
1<2	0-3	.0	.0	.0	*	.0	*	.0	.0	.0	*	.1	
	4-10	.1	.0	.0	.1	*	.1	.1	.0	.0		.4	
	11-21	.1	.1	.1	.1	.2	.2	.1	.0	.0		.9	
	22+	.1	.3	.1	.1	.2	*	.1	.1	.0		1.1	
	TOT %	.2	.4	.2	.4	.5	.4	.3	.1	.0	*	2.5	
2<5	0-3	.0	.0	.1	*	.0	*	.0	.0	.0	*	.2	
	4-10	*	*	.1	.2	.1	.2	.1	.1	.0		.9	
	11-21	.1	.2	.2	.4	.7	.4	.2	.2	.0		2.4	
	22+	.2	.3	.2	.2	.5	.2	.2	.1	.0		1.9	
	TOT %	.4	.5	.6	.7	1.3	.9	.5	.4	.0	*	5.3	
5<10	0-3	*	*	.0	*	.0	.1	*	.0	.0	.2	.4	
	4-10	.3	.4	.5	.6	.9	1.6	1.1	.8	.0		6.4	
	11-21	1.4	.7	.9	.8	1.8	2.6	3.2	1.8	.0		13.2	
	22+	1.6	.6	.1	.5	1.4	1.7	2.3	1.9	.0		10.3	
	TOT %	3.3	1.7	1.6	2.0	4.0	5.9	6.9	4.4	.0	.2	30.3	
10+	0-3	.2	*	.1	.1	.2	.3	*	.1	.0	.7	1.7	
	4-10	1.7	.8	.5	.8	1.9	2.5	3.6	2.1	.0		13.9	
	11-21	2.9	1.1	1.0	.8	1.7	3.2	6.3	3.0	.0		24.1	
	22+	1.4	.3	.2	.2	.4	2.1	4.9	2.1	.0		11.6	
	TOT %	6.2	2.2	1.8	1.9	4.2	10.0	15.0	9.3	.0	.7	51.3	
TOT OBS													2924
TOT PCT		10.8	5.6	4.8	6.2	12.6	20.2	23.8	14.6	.0	1.4	100.0	

OCTOBER

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1873-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	12.8	1.2	3.3	7.6	15.2	11.6	4.8	.5	1.0	1.7	59.6	40.4	421
06009	11.6	.2	2.8	7.2	18.1	13.5	1.6	1.2	.7	1.4	58.4	41.6	430
12015	9.2	.2	2.6	6.8	22.4	14.5	3.9	.9	1.1	1.3	62.9	37.1	456
18021	11.6	1.6	2.7	13.4	15.9	11.3	2.0	1.1	1.4	.7	61.7	38.3	441
TOT	197	14	50	153	314	223	54	16	18	27	1061	687	1748
PCT	11.3	.8	2.9	8.8	18.0	12.8	3.1	.9	1.0	1.3	60.7	39.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	6.8	3.2	3.0	5.2	32.9	48.9	660
06009	7.8	2.4	2.0	6.3	30.7	50.8	590
12015	7.5	3.1	2.0	4.8	28.3	54.1	702
18021	8.4	2.5	3.1	5.7	29.3	51.0	610
TOT	195	72	65	140	776	1314	2562
PCT	7.6	2.8	2.3	5.5	30.3	51.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL
(GMT)						OBS
00003	12.7	18.3	27.8	33.9	38.3	410
06009	11.9	16.2	25.9	34.4	39.7	421
12015	8.6	13.1	23.9	40.5	35.6	444
18021	11.1	16.6	31.6	30.7	37.6	433
TOT	188	273	466	357	645	1708
PCT	11.0	16.0	27.3	35.0	37.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
60/64	.0	.0	.0	.0	.1	.0	.1	.4	9	.6
55/59	.0	.0	.0	.1	.5	.7	2.9	3.6	117	7.6
50/54	.0	.0	.1	.1	1.8	2.7	10.8	14.1	453	29.6
45/49	.0	.0	.1	.6	3.1	8.9	11.2	15.3	601	39.3
40/44	.0	.0	.0	.3	3.5	4.8	4.8	5.4	287	18.7
35/39	.0	.0	.0	.3	.4	.8	1.4	1.0	59	3.9
30/34	.0	.0	.0	.0	.0	.2	.0	.1	5	.3
TOTAL	0	0	3	22	143	276	477	610	1531	100.0
PCT	.0	.0	.2	1.4	9.3	18.0	31.2	39.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
0.0	0.0	0.0	0.1	0.3	0.2	0.0	0.0	0.0	0.0
0.2	0.1	0.1	0.6	1.9	2.6	2.0	0.1	0.0	0.0
0.8	0.6	1.0	2.3	4.3	9.8	7.5	2.4	0.0	0.3
4.9	2.9	2.8	2.8	4.2	7.2	9.5	4.6	0.0	0.5
4.4	2.0	0.8	0.5	0.6	1.2	4.2	4.8	0.0	0.2
1.0	0.2	0.2	0.0	0.1	0.2	0.5	1.4	0.0	0.1
0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0
11.3	5.8	5.0	6.3	12.0	21.2	23.7	13.5	0.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	62	59	56	48	40	37	35	47.8	742
06009	63	59	55	47	40	36	34	47.4	630
12015	65	59	57	48	40	35	32	48.3	806
18021	65	60	57	49	41	38	34	48.9	663
TOT	65	59	56	48	40	37	32	48.1	2841

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	1.0	9.2	17.9	31.4	40.6	85	414		
06009	.0	1.0	8.1	18.0	29.9	42.9	86	394		
12015	.0	2.8	10.5	19.8	29.3	37.6	84	399		
18021	.0	2.0	10.1	16.8	33.3	37.8	85	337		
TOT	0	26	148	284	484	622	85	1564		

OCTOBER

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1873-1970AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	2	.0	.1
14/16	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	4	.1	.2
11/13	.0	.0	.0	.0	.1	.0	.1	.2	.1	.0	8	.0	.4
9/10	.0	.0	.0	.1	.2	.3	.3	.2	.1	.0	25	.1	1.2
7/8	.0	.0	.0	.0	.4	.8	.6	.7	.1	.1	32	.7	2.0
6	.0	.0	.0	.1	.5	1.4	.7	.2	.0	.0	36	.7	2.2
5	.0	.0	.0	.2	.9	2.3	1.1	.4	.0	.0	99	1.4	3.7
4	.0	.0	.0	.2	1.4	2.4	1.4	.2	.0	.0	109	1.0	4.6
3	.0	.0	.0	.2	3.1	2.8	1.7	.5	.1	.0	163	2.0	6.3
2	.0	.0	.0	1.1	3.2	3.2	1.5	.5	.1	.0	187	1.9	7.6
1	.0	.0	.1	1.0	4.0	4.4	1.2	.2	.0	.0	214	1.7	9.3
0	.0	.0	.1	1.6	3.3	2.6	1.2	.1	.1	.0	173	1.0	7.9
-1	.0	.0	.3	1.9	3.0	2.3	.5	.2	.0	.0	160	.8	7.4
-2	.0	.0	.4	1.6	3.3	2.3	.4	.1	.0	.0	157	.9	7.2
-3	.0	.0	.8	1.6	2.1	1.0	.3	.0	.0	.0	114	.3	5.3
-4	.0	.0	.6	1.5	1.9	.9	.4	.1	.0	.0	106	.4	5.1
-5	.0	.2	.3	1.8	1.3	.7	.1	.1	.0	.0	87	.2	4.3
-6	.0	.3	1.1	1.0	.9	.4	.1	.0	.0	.0	72	.1	3.6
-7/-8	.0	.2	1.1	1.5	1.1	.5	.1	.0	.0	.0	87	.1	4.4
-9/-10	.0	.2	.3	1.0	.3	.2	.0	.0	.0	.0	39	.0	2.0
-11/-13	.1	.2	.3	.4	.4	.2	.0	.0	.0	.0	28	.1	1.4
-14/-16	.1	.0	.2	.1	.1	.0	.0	.0	.0	.0	7	.1	.3
-17/-19	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	2	20	110	329	617	565	230	72	7	2	1954	264	1690
PCT	.1	1.0	9.6	16.8	31.6	28.9	11.8	3.7	.4	.1	100.0	13.5	86.5

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.3	.1	.0	.0	.0	.6	.0	.4	.1	.0	.0	.0	.6
1-2	.0	.5	.5	.0	.0	.0	1.0	.0	.1	.1	.0	.0	.0	.2
3-4	.0	.3	1.5	.3	.0	.0	2.1	.0	.2	.3	.3	.0	.0	.8
5-6	.1	.0	.8	.2	.1	.0	1.3	.0	.1	.2	.0	.0	.0	.4
7	.0	.0	.6	.4	.0	.0	1.0	.0	.0	.3	.1	.0	.0	.3
8-9	.0	.0	.4	1.0	.2	.0	1.6	.0	.0	.1	.3	.0	.0	.5
10-11	.0	.1	.2	.3	.1	.0	.7	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.4	.1	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.3	4.7	2.5	1.1	.0	9.4	.0	.9	1.4	1.0	.0	.0	3.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.5	.0	.0	.0	.0	.8	.1	.6	.0	.0	.0	.0	.7
1-2	.1	.9	.3	.0	.0	.0	1.4	.1	.7	.4	.0	.0	.0	1.2
3-4	.0	.3	1.5	.0	.0	.0	1.8	.0	.5	1.1	.0	.0	.0	1.6
5-6	.0	.1	1.2	.3	.0	.0	1.6	.0	.0	.5	.1	.0	.0	.4
7	.0	.0	.4	.2	.0	.0	.6	.0	.0	.4	.1	.1	.0	.7
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.1	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.9	3.5	.6	.1	.0	6.5	.3	1.8	2.9	.6	.3	.0	5.7

PERIOD: (OVER-ALL) 1963-1970

OCTOBER

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.2	.0	.0	.0	1.2	.0	.6	.2	.0	.0	.0	.8
1-2	.0	1.9	.4	.0	.0	.0	2.4	.0	1.4	.8	.0	.0	.0	2.3
3-4	.0	1.4	1.8	.4	.0	.0	3.5	.0	1.1	3.9	.3	.0	.0	5.3
5-6	.0	.1	2.3	.9	.0	.0	3.3	.0	.4	3.5	1.0	.1	.0	5.1
7	.0	.1	.8	.7	.0	.0	1.7	.0	.2	2.2	2.0	.0	.0	4.4
8-9	.0	.0	.3	.3	.0	.0	.6	.0	.0	1.4	1.4	.0	.0	2.7
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	1.0	.4	.1	.0	1.6
12	.0	.0	.0	.1	.0	.0	.1	.0	.1	.0	.1	.0	.0	.2
13-16	.0	.0	.0	.2	.6	.0	.8	.0	.0	.0	.2	.4	.0	.5
17-19	.0	.0	.1	.0	.1	.0	.2	.0	.0	.2	.0	.0	.0	.2
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.2	6.0	2.8	.7	.0	14.2	.0	3.9	13.2	5.5	.6	.0	23.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.5	.0	.0	.0	.0	.5	.3	.3	.1	.0	.0	.0	.7	
1-2	.0	2.2	.6	.0	.0	.0	2.8	.0	.6	1.1	.0	.0	.0	1.8	
3-4	.0	.7	2.5	.4	.0	.0	3.5	.0	1.0	1.6	.2	.0	.0	2.8	
5-6	.0	.5	2.3	.9	.4	.0	4.3	.0	.2	1.3	.4	.0	.0	1.9	
7	.0	.1	2.3	1.5	.3	.0	4.1	.0	.0	1.1	.7	.1	.0	2.0	
8-9	.0	.1	1.2	1.1	.0	.0	2.4	.0	.0	.7	.4	.4	.0	1.6	
10-11	.0	.0	1.1	1.3	.7	.0	3.1	.0	.0	.3	.6	.2	.0	1.1	
12	.0	.0	.1	.8	.0	.0	1.0	.0	.0	.0	.3	.2	.0	.4	
13-16	.0	.0	.1	.4	.1	.0	1.0	.0	.0	.1	.1	.1	.0	.4	
17-19	.0	.0	.0	.0	.2	.0	.5	.0	.0	.0	.0	.2	.1	.4	
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.1	10.1	6.4	2.4	.2	23.2	.3	2.2	6.4	2.8	1.3	.1	13.1	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.8	3.9	.8	.0	.0	.0	7.5	
1-2	.4	8.3	4.3	.0	.0	.0	13.1	
3-4	.0	5.5	14.0	1.7	.0	.0	21.3	
5-6	.1	1.5	12.1	9.9	.8	.0	18.4	
7	.0	.4	8.1	9.8	.5	.0	14.8	
8-9	.0	.1	4.4	4.6	.7	.0	9.8	
10-11	.0	.1	3.0	3.0	1.3	.0	7.4	
12	.0	.1	.1	1.7	.3	.0	2.3	
13-16	.0	.0	.3	1.2	1.2	.0	2.7	
17-19	.0	.0	.3	.0	1.1	.4	1.7	
20-22	.0	.0	.1	.1	.4	.0	.7	
23-25	.0	.0	.0	.0	.3	.0	.3	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.4	20.1	47.5	22.1	6.6	.4	100.0	743

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	4.6	9.5	6.3	3.9	1.6	.6	.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	433	5
6-7	.0	.8	5.0	9.0	9.1	4.2	2.3	2.1	1.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	533	7
8-9	.0	.1	.8	1.8	3.7	3.7	2.1	1.6	1.4	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	246	9
10-11	.0	.1	.2	.8	.9	1.0	1.2	.9	1.4	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	108	11
12-13	.0	.0	.0	.4	.3	.4	.5	.5	.2	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	37	10
>13	.0	.0	.0	.2	.0	.2	.2	.1	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	21	12
TOT	1.3	1.2	2.8	1.8	1.9	1.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	169	5
TOTAL	30	107	285	312	306	186	117	87	90	20	11	4	2	0	0	0	0	0	0	1547	7
PCT	1.9	6.9	18.4	20.2	19.8	12.0	7.6	5.6	5.2	1.3	.7	.3	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1875-1970

NOVEMBER

AREA 0004 SE NEWFOUNDLAND COAST
48.9N 51.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL PCPN	PRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	7.4	2.4	3.4	.0	3.2	.0	.0	15.7	3.2	.0	5.8	.0	.0	.0	75.3
NE	8.8	2.6	3.6	.0	3.0	.0	.0	17.2	2.6	.0	6.2	1.2	.0	.0	72.7
E	14.0	1.0	3.2	.0	1.7	.0	.3	21.6	2.9	.0	13.2	3.7	.0	.0	58.6
SE	16.4	2.8	6.2	.0	.2	.0	.2	25.9	3.5	.0	20.8	.8	.5	.0	48.5
S	10.8	4.0	4.5	.0	.3	.0	.0	19.6	3.8	.0	19.4	1.2	.5	.0	55.5
SW	7.2	1.2	1.9	.0	.6	.0	.3	11.1	3.1	.0	14.9	1.7	1.9	.0	67.3
W	3.6	1.9	1.9	.0	1.4	.0	.0	8.6	3.8	.0	2.9	.2	.4	.0	84.1
NW	4.9	1.8	1.3	.0	3.2	.0	.3	11.2	2.3	.3	2.2	.1	.0	.0	84.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	11.1	.0	.0	77.8
TOT PCT	8.3	2.2	3.5	.0	1.6	.0	.1	15.1	3.2	*	10.5	1.0	.5	.0	69.7
TOT OBS:	2156														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL PCPN	PRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	8.8	2.3	2.6	.0	1.6	.0	.2	15.5	4.4	.2	7.9	.5	.4	.0	71.4
06009	9.7	3.4	4.3	.0	1.7	.0	.2	17.8	3.6	.0	10.8	1.1	.4	.0	66.4
12015	7.9	1.5	3.7	.0	1.1	.0	.0	13.4	1.8	.0	11.2	1.1	.7	.0	71.6
18021	6.6	1.7	3.5	.0	1.8	.0	.2	13.5	3.1	.0	12.5	1.3	.6	.0	69.0
TOT PCT	8.3	2.2	3.5	.0	1.6	.0	.1	15.0	3.2	*	10.6	1.0	.5	.0	69.6
TOT OBS:	2189														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.4	2.5	4.3	2.5	.8	.1		10.9	18.0	10.8	7.5	10.4	8.4	9.7	12.3	12.0	10.1	
NE	.2	2.5	3.7	1.4	.2	*		8.1	15.6	8.1	7.3	7.1	11.1	7.9	6.4	9.7	6.3	
E	.3	2.0	2.9	1.2	.2	.1		6.7	15.3	6.1	5.9	6.2	8.4	7.9	7.2	6.3	8.0	
SE	.2	2.8	3.8	2.1	.4	*		9.4	16.3	8.1	6.0	10.3	10.5	8.6	14.2	9.7	9.8	
S	.4	4.0	9.8	4.5	.5	.1		15.3	17.5	18.3	16.0	15.5	11.4	14.0	13.3	14.7	16.4	
SW	.2	4.5	7.2	3.5	.9	.2		16.5	17.4	17.0	16.3	13.5	15.9	17.1	17.6	17.4	18.8	
W	.4	3.0	7.2	4.5	2.0	.2		17.2	20.0	17.3	21.6	19.9	18.6	15.6	14.0	16.3	13.7	
NW	.2	3.3	6.8	3.6	1.5	.1		15.6	18.6	13.4	18.8	15.7	15.7	19.1	14.6	13.7	15.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.6							.6	.0	.9	.5	1.4	.0	.2	.5	.2	1.2	
TOT OBS	81	682	1150	645	181	22	2761		17.6	563	186	310	110	926	206	576	84	
TOT PCT	2.9	24.7	41.7	23.4	6.6	.8		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	1.5	3.8	3.3	1.6	.4		10.5	18.0	10.0	10.0	10.4	11.8		
NE	1.2	3.3	2.8	.7	*		8.1	15.6	7.9	7.8	7.5	9.2		
E	1.1	2.8	2.3	.4	.1		6.7	15.3	6.0	6.6	7.7	6.5		
SE	1.4	3.8	3.0	1.0	.1		9.4	16.3	7.6	10.4	10.1	9.7		
S	1.7	5.8	5.7	1.9	.2		15.3	17.5	17.7	14.8	13.8	14.9		
SW	1.9	6.9	5.0	2.1	.5		16.5	17.4	16.8	14.0	17.2	17.6		
W	1.4	5.8	6.2	3.2	.7		17.2	20.0	18.4	19.6	15.1	16.0		
NW	1.4	5.8	5.5	2.4	.4		15.6	18.6	14.8	15.7	17.8	14.0		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	.6						.6	.0	.8	1.1	.3	.3		
TOT OBS	339	1049	932	369	72	2761		17.6	749	620	732	660		
TOT PCT	12.3	38.0	33.8	13.4	2.6		100.0		100.0	100.0	100.0	100.0		

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	.8	2.4	27.8	40.9	22.3	6.6	.9	17.6	100.0	749
0600	1.1	1.6	22.3	43.2	24.8	6.0	1.0	18.1	100.0	620
1200	.3	2.3	24.6	42.3	23.0	6.7	.8	17.6	100.0	732
1800	.3	2.9	23.9	40.3	23.6	6.5	.5	17.2	100.0	680
TOT	17	64	682	1150	645	181	22	17.6		2761
PCT	.6	2.3	24.7	41.7	23.4	6.6	.8	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.7	.7	3.2	5.6		6.6
NE	.9	.6	2.1	4.6		6.5
E	.7	.3	1.2	5.0		6.8
SE	.7	.4	1.0	8.0		7.1
S	1.6	.9	3.3	8.9		6.5
SW	2.4	1.3	4.7	8.3		6.1
W	3.5	2.8	5.6	5.8		5.4
NW	2.0	1.9	4.4	6.6		5.9
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.1	.1		3.7
TOT OBS	210	147	422	872	1651	6.2
TOT PCT	12.7	8.9	25.6	52.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.8	.6	.4	1.2	2.7	2.1	.5	.2	.1	.1	2.1	
NE	.6	.3	.3	1.0	1.7	1.7	.5	.1	.2	.1	2.2	
E	.8	.1	.4	.9	1.3	1.2	.4	.2	.1	.2	1.6	
SE	2.1	.1	.9	1.4	1.9	1.4	.7	.1	.2	.1	1.7	
S	2.4	.1	.4	1.7	2.7	1.3	.7	.2	.6	.7	4.5	
SW	2.3	.0	.3	1.4	2.6	2.5	.8	.3	.3	.4	5.8	
W	.6	.0	.4	1.6	2.9	3.0	.9	.3	.3	.1	7.8	
NW	.2	.0	.4	1.6	3.9	2.9	.2	.2	.6	.1	5.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.0	.0	.1	.0	.0	.1	.0	.2	
TOT OBS	162	6	52	178	325	766	77	26	19	29	1651	
TOT PCT	9.8	.4	3.1	10.8	19.7	16.1	4.7	1.6	1.2	1.8	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.7	2.5	2.7	2.7	2.7	2.8	2.8	2.8
>5000	2.5	3.9	4.2	4.3	4.3	4.4	4.4	4.4
>3500	3.3	6.1	6.7	6.8	6.9	6.9	6.9	6.9
>2000	15.0	23.3	24.7	24.7	24.8	24.9	25.0	25.0
>1000	26.3	40.6	43.7	44.0	44.1	44.4	44.6	44.6
>600	30.0	48.2	53.2	54.3	54.7	55.2	55.4	55.4
>300	30.6	49.7	55.5	57.0	57.7	58.2	58.5	58.5
>150	30.6	49.8	55.6	57.3	58.0	58.6	58.9	58.9
>0	30.7	50.3	57.1	59.1	60.5	64.0	68.1	68.8
TOTAL	506	830	941	974	998	1056	1123	1135

TOTAL NUMBER OF OBS: 1649

PCT FREQ NH <5/8: 31.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
5.1	4.8	6.7	4.9	5.8	5.4	9.8	8.3	27.1	9.0	1772

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.1	.2	.5	.3	.1	.0	.0	.0	1.3	
	NO PCP	.5	.3	.8	1.6	2.2	1.5	.2	.2	.0	.1	7.3	
	TOT %	.6	.3	.9	1.9	2.6	1.8	.2	.2	.0	.1	8.6	
1/2<1	PCP	.2	.1	.1	.2	.2	.2	.1	.1	.0	.0	1.0	
	NO PCP	.0	.1	.2	.2	.3	.5	.0	.0	.0	.0	1.2	
	TOT %	.2	.1	.2	.4	.5	.7	.1	.1	.0	.0	2.2	
1<2	PCP	.2	.3	.0	.2	.2	.1	.1	.1	.0	.0	1.3	
	NO PCP	.0	.1	.0	.1	.5	.2	.1	.0	.0	.0	.8	
	TOT %	.2	.3	.0	.3	.5	.3	.2	.1	.0	.0	2.0	
2<5	PCP	.2	.4	.7	.9	.7	.5	.2	.5	.0	.0	4.0	
	NO PCP	.2	.3	.2	.4	.8	.9	.3	.3	.0	.0	3.4	
	TOT %	.4	.8	.9	1.2	1.6	1.4	.5	.8	.0	.0	7.5	
5<10	PCP	.9	.5	.5	.9	1.3	.7	.8	.8	.0	.0	6.4	
	NO PCP	2.9	2.1	1.5	1.9	3.6	4.6	4.3	3.5	.0	.1	24.4	
	TOT %	3.8	2.6	2.0	2.8	4.9	5.3	5.1	4.3	.0	.1	30.8	
10+	PCP	.1	.2	.1	.1	.3	.1	.3	.2	.0	.0	1.3	
	NO PCP	5.0	4.2	2.8	3.0	5.5	7.2	11.2	8.7	.0	.2	47.6	
	TOT %	5.1	4.4	2.9	3.0	5.7	7.3	11.4	8.9	.0	.2	48.9	
TOT OBS													2150
TOT PCT		10.2	8.5	6.9	9.6	15.7	16.7	17.6	14.4	.0	.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.1	.5	
	4-10	.1	.1	.3	.5	.8	.3	.1	.0	.0	.0	2.2	
	11-21	.1	.1	.4	.7	1.1	1.1	.1	.1	.0	.0	3.7	
	22+	.1	.1	.1	.4	.7	.3	.0	.0	.0	.0	1.8	
	TOT %	.5	.3	.8	1.8	2.6	1.7	.2	.2	.0	.1	8.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.1	.1	.1	.1	.0	.0	.0	.5	
	11-21	.1	.1	.1	.1	.3	.3	.0	.0	.0	.0	.9	
	22+	.0	.1	.1	.1	.1	.2	.1	.0	.0	.0	.7	
	TOT %	.2	.1	.2	.3	.5	.6	.2	.1	.0	.0	2.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.1	.1	.0	.1	.1	.0	.0	.4	
	11-21	.1	.1	.0	.1	.2	.3	.1	.0	.0	.0	.9	
	22+	.1	.3	.0	.2	.3	.1	.1	.2	.0	.0	1.4	
	TOT %	.2	.5	.0	.5	.6	.4	.3	.4	.0	.0	2.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.1	.2	.3	.3	.1	.1	.0	.0	1.3	
	11-21	.0	.3	.2	.6	.5	.5	.2	.3	.0	.0	2.6	
	22+	.3	.3	.4	.5	.9	.5	.2	.5	.0	.0	3.7	
	TOT %	.4	.7	.8	1.2	1.7	1.4	.6	.9	.0	.0	7.6	
5<10	0-3	.0	.1	.1	.0	.0	.1	.0	.0	.0	.1	.5	
	4-10	.7	.8	.3	.4	1.1	1.3	.8	.5	.0	.0	6.0	
	11-21	1.4	1.1	.9	1.1	1.7	2.6	1.9	1.9	.0	.0	12.6	
	22+	1.4	.9	.6	1.0	1.7	1.5	2.3	1.5	.0	.0	10.4	
	TOT %	3.5	2.3	1.9	2.6	4.6	5.4	5.0	4.0	.0	.1	29.5	
10+	0-3	.2	.1	.1	.1	.3	.1	.2	.2	.0	.3	1.6	
	4-10	1.4	1.5	1.3	1.4	1.8	2.1	1.8	2.5	.0	.0	13.9	
	11-21	2.6	2.2	1.3	1.3	2.3	2.8	4.9	4.4	.0	.0	21.9	
	22+	1.3	.5	.1	.3	1.2	1.9	4.3	2.8	.0	.0	12.4	
	TOT %	5.6	4.2	2.8	3.2	5.7	7.0	11.2	9.8	.0	.3	49.8	
TOT OBS													2452
TOT PCT		10.4	8.1	6.6	9.5	15.6	16.5	17.5	15.3	.0	.5	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 399	400 499	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	6.3	.5	3.1	12.3	15.9	15.3	3.1	.7	.7	2.7	63.0	37.0	414
06009	11.1	.2	3.0	10.4	21.5	15.3	6.2	.5	1.7	1.0	71.0	29.0	404
12015	9.7	.5	2.9	11.2	19.7	18.2	3.9	1.9	1.5	1.2	70.6	29.4	412
18021	10.1	.2	3.3	9.0	20.2	14.5	5.0	2.9	.7	2.0	67.8	32.2	456
TOT	166	6	92	180	326	267	77	26	19	29	1148	338	1686
PCT	9.8	.4	3.1	10.7	19.3	15.8	4.6	1.5	1.1	1.7	68.1	31.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	7.6	2.1	3.2	5.4	31.7	50.0	634
06009	7.5	1.2	1.9	8.0	29.1	52.2	584
12015	9.1	2.7	3.1	7.9	30.2	46.9	635
18021	8.8	2.5	9.1	9.0	26.6	50.0	612
TOT	206	53	71	187	732	1236	2485
PCT	8.3	2.1	2.9	7.5	29.5	49.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 3+	NM <5/8 AND 5+	TOTAL OBS
00003	8.7	14.9	29.3	35.7	35.0	403
06009	11.4	15.9	30.6	43.3	26.1	395
12015	10.1	14.3	29.3	42.1	28.6	406
18021	9.9	15.1	28.8	41.3	29.9	445
TOT	165	248	486	670	493	1649
PCT	10.0	15.0	29.5	40.6	29.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.1	.1	.2	.6	15	.9
50/54	.1	.0	.1	.1	.1	.3	2.4	4.5	120	7.5
45/49	.0	.0	.0	.1	.5	3.1	4.8	14.1	380	22.6
40/44	.0	.0	.1	.4	3.0	6.0	10.2	14.9	591	34.6
35/39	.0	.0	.1	1.9	3.9	9.3	8.4	8.4	435	27.3
30/34	.0	.0	.0	.2	.7	1.4	2.1	1.6	97	6.1
25/29	.0	.0	.0	.1	.1	.3	.3	.2	13	.8
20/24	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	1	0	4	35	137	262	433	705	1592	100.0
PCT	.1	.0	.3	2.2	8.3	16.5	28.5	44.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	.1	.4	.4	.1	.0	.0	.0
50/54	.0	.0	.4	1.1	3.7	2.0	.3	.1	.0	.0
45/49	.4	1.1	2.2	3.7	6.1	5.4	2.8	.7	.0	.1
40/44	3.6	3.7	2.8	2.9	4.7	5.3	6.9	4.6	.0	.1
35/39	3.3	3.2	1.8	1.9	1.4	2.2	3.0	6.3	.0	.2
30/34	1.0	.3	.1	.2	.1	.4	2.0	2.0	.0	.0
25/29	.1	.1	.0	.0	.0	.1	.3	.3	.0	.0
20/24	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
TOTAL	10.4	8.4	7.3	9.8	16.4	15.8	17.4	14.1	.0	.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	59	55	50	41	37	25	23	41.5	742
06009	55	53	50	41	32	27	25	41.2	618
12015	59	55	51	41	31	26	24	41.2	734
18021	55	53	51	42	33	28	24	41.8	862
TOT	59	54	50	41	37	27	23	41.4	2756

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.7	7.5	18.9	28.8	44.1	86	413
06009	.0	2.3	5.5	17.0	30.5	44.8	86	400
12015	.3	2.8	7.8	15.2	29.5	44.4	85	396
18021	.0	4.0	12.6	15.1	24.9	43.5	84	405
TOT	1	39	125	267	459	713	85	1614

NOVEMBER

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1875-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)												
AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	H FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.1		2	.0
11/13	.0	.0	.0	.0	.0	.1	.2	.4	.2	.1	16	.2
9/10	.0	.0	.0	.0	.1	.1	.5	.6	.3	.0	28	.4
7/8	.0	.0	.0	.0	.1	.4	1.3	1.0	.7	.1	68	.9
6	.0	.0	.0	.0	.1	.6	1.4	.7	.3	.0	58	1.0
5	.0	.0	.0	.0	.2	1.3	1.9	.8	.4	.0	88	1.2
4	.0	.0	.0	.1	.4	1.9	2.1	1.3	.1	.1	114	1.5
3	.0	.0	.0	.1	1.0	2.5	2.6	.8	.3	.1	141	1.5
2	.0	.0	.0	.1	1.5	3.2	2.1	.6	.0	.1	145	1.2
1	.0	.0	.0	.1	2.1	2.9	2.0	.9	.0	.0	156	.7
0	.0	.0	.0	.4	3.5	3.8	1.8	.4	.0	.0	189	.8
-1	.0	.0	.0	.6	2.9	2.3	1.3	.2	.0	.0	141	.4
-2	.0	.0	.0	.8	3.4	2.2	1.0	.1	.0	.0	146	.5
-3	.0	.1	.2	1.6	3.2	1.7	.6	.1	.0	.1	143	.3
-4	.0	.0	.4	1.3	3.0	1.4	.3	.0	.0	.0	125	.3
-5	.0	.1	.4	1.3	2.2	.9	.1	.0	.0	.0	96	.0
-6	.0	.0	.6	1.5	1.2	.7	.2	.0	.0	.0	79	.1
-7/-8	.0	.3	.8	1.6	1.9	.3	.1	.0	.0	.0	98	.0
-9/-10	.1	.1	.3	1.1	1.0	.1	.1	.1	.0	.0	52	.0
-11/-13	.1	.2	.5	.8	.2	.1	.0	.0	.0	.0	35	.0
-14/-16	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	8	.0
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
-20/-22	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
TOTAL	2		66		339		376		42		1991	201
PCT	.1	.9	3.4	11.3	27.9	26.5	19.5	7.9	2.2	.4	100.0	10.4

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N												
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47
<1	.4	.5	.2	.0	.0	.0	1.0	.0	.2	.2	.0	.0
1-2	.0	.8	.3	.0	.0	.0	1.1	.0	.8	.5	.0	.0
3-4	.0	.5	.7	.2	.0	.0	1.4	.0	.8	1.4	.0	.0
5-6	.0	.0	.9	.2	.0	.0	1.2	.0	.0	1.0	.0	.0
7	.0	.1	.8	.1	.0	.0	1.1	.0	.0	.9	.5	.2
8-9	.0	.0	.2	.4	.0	.0	.6	.0	.0	.8	1.1	.0
10-11	.0	.0	.3	.4	.0	.0	.7	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.9	3.5	1.4	.3	.0	7.4	.0	1.7	4.8	1.7	.3
E												
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47
<1	.0	.3	.3	.0	.0	.0	.6	.2	.0	.0	.0	.0
1-2	.0	1.4	.7	.0	.0	.0	2.1	.0	1.5	1.1	.0	.0
3-4	.2	.3	.5	.0	.0	.0	.9	.0	1.0	2.0	.0	.0
5-6	.0	.1	1.3	.1	.0	.0	1.6	.0	.4	1.3	.3	.0
7	.0	.0	.1	.4	.0	.0	.5	.0	.0	.9	1.0	.0
8-9	.0	.0	.3	.2	.0	.0	.4	.0	.0	.0	.9	.0
10-11	.0	.0	.0	.3	.2	.1	.5	.0	.0	.3	.9	.2
12	.0	.0	.0	.2	.2	.0	.3	.0	.0	.0	.3	.2
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.0	3.3	1.1	.6	.1	7.2	.2	3.0	5.7	3.6	.8

PERIOD: (OVER-ALL) 1963-1970

NOVEMBER

TABLE 18 (CONT)

AREA 0004 SE NEWFOUNDLAND COAST
46.0N 51.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.2	.9	.0	.0	.0	.0	1.1
1-2	.4	2.3	2.2	.0	.0	.0	4.9	.0	1.4	.9	.1	.0	.0	2.4
3-4	.0	1.2	2.9	.9	.0	.0	5.1	.0	1.1	2.7	.3	.0	.0	4.0
5-6	.0	.8	1.7	.8	.2	.0	3.3	.7	.3	1.6	.5	.2	.0	2.8
7	.0	.0	.8	.2	.0	.0	1.1	.0	.5	.9	.8	.2	.0	2.4
8-9	.0	.0	.3	1.0	.0	.0	1.3	.0	.0	.4	.1	.0	.2	.6
10-11	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	.3	.3	.5	.0	1.3
12	.0	.0	.0	.7	.2	.0	.9	.0	.0	.0	.0	.2	.0	.7
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.5	.3	.0	.8
17-19	.0	.0	.2	.2	.0	.0	.3	.0	.0	.2	.0	.2	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.4	8.0	4.9	.3	.0	18.1	.3	4.2	7.2	2.4	1.5	.2	15.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.7	.0	.0	.0	.0	.8	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	.8	.5	.0	.0	.0	1.3	.0	1.2	.5	.0	.0	.0	1.7	
3-4	.0	1.2	2.2	.4	.0	.0	3.8	.0	.8	2.5	.0	.0	.0	3.4	
5-6	.0	.0	1.1	.3	.2	.0	1.6	.0	.2	2.6	1.3	.0	.0	4.1	
7	.0	.0	1.4	.2	.1	.0	1.7	.0	.0	1.3	1.2	.2	.0	2.7	
8-9	.0	.0	.7	.2	.1	.3	1.3	.0	.0	.1	.2	.5	.0	.8	
10-11	.0	.0	.5	.8	.8	.0	2.2	.0	.0	.0	.5	.2	.0	.7	
12	.0	.0	.0	.0	.3	.1	.4	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.2	.3	.0	.4	.0	.0	.3	.3	.2	.0	.8	
17-19	.0	.0	.0	.2	.2	.0	.3	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.3	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.7	6.3	2.4	2.2	.4	14.1	.0	2.4	7.5	3.5	1.2	.3	14.9	99.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	1.4	3.0	.6	.0	.0	.0	5.0	
1-2	.6	10.2	6.7	.0	.0	.0	17.4	
3-4	.2	6.8	15.0	7.0	.0	.0	29.0	
5-6	.2	1.8	11.5	9.6	.6	.0	17.7	
7	.0	.6	7.3	4.4	.6	.0	12.9	
8-9	.0	.0	2.7	4.1	.6	.5	7.9	
10-11	.0	.0	1.7	4.2	1.8	.2	7.9	
12	.0	.0	.2	1.2	.9	.2	2.4	
13-16	.0	.0	.3	1.1	1.7	.0	3.0	
17-19	.0	.0	.3	.3	.6	.0	1.2	
20-22	.0	.0	.0	.0	.2	.3	.5	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.3	22.4	46.2	20.9	7.1	1.1	100.0	660

PERIOD: (OVER-ALL) 1969-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	5.4	9.4	5.0	3.2	1.2	.9	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	401	4
6-7	.0	.1	4.3	8.3	8.3	3.3	2.6	1.3	1.8	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	460	7
8-9	.0	.1	1.2	2.4	4.3	3.7	3.3	1.3	1.7	.3	.8	.1	.0	.0	.0	.0	.0	.0	.0	288	9
10-11	.0	.0	.3	.7	1.8	.7	1.2	.7	1.6	.3	.4	.1	.3	.0	.0	.0	.0	.0	.0	124	11
12-13	.0	.0	.1	.3	.1	.2	.5	.3	.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	29	11
>13	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	4	12
INDRY	1.0	.9	2.4	2.9	1.6	1.9	.9	.3	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	174	6
TOTAL	31	97	263	279	286	162	140	70	91	20	26	7	6	0	0	0	0	0	0	1478	7
PCT	2.1	6.6	17.8	18.9	19.4	11.0	9.3	4.7	6.2	1.4	1.8	.3	.4	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1879-1970

DECEMBER

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	PRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WE4
N	4.2	1.4	2.9	.0	13.1	.3	.0	19.6	2.0	.0	2.7	.0	.3	.0	75.3
NE	9.3	1.7	6.9	.8	14.7	.0	.8	30.9	3.4	.0	6.9	.0	.0	.8	58.1
E	15.0	3.6	3.6	.0	13.3	1.7	.0	35.4	3.4	.0	7.3	.0	3.4	.9	49.4
SE	15.9	3.8	5.9	.0	5.2	.2	1.4	31.8	2.4	.0	18.6	3.0	.3	.0	43.9
S	11.7	2.8	3.3	.0	4.3	.3	.0	22.3	4.4	.0	23.0	1.9	1.7	.0	46.8
SW	3.5	3.2	2.4	.0	7.8	.0	.9	16.4	2.8	.1	8.0	.3	.4	.0	72.0
W	1.6	1.9	1.2	.2	10.4	.0	.4	14.7	4.9	.1	1.3	.4	.6	.2	77.7
NW	1.7	1.6	.6	.0	8.8	.0	.3	11.6	4.6	.0	2.9	.1	.7	.0	80.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	16.7	.0	.0	.0	75.0
TOT PCT	9.8	2.3	2.7	.1	9.3	.2	.4	19.5	3.6	.1	7.6	.6	.8	.1	67.6
TOT OBS:	2044														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	PRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WE4
0000	7.6	3.2	2.4	.0	9.5	.2	.6	11.8	3.5	.0	6.7	.4	.6	.4	66.6
0600	7.4	3.2	1.6	.2	8.6	.4	.0	19.4	4.2	.2	8.2	.6	.2	.2	66.9
1200	2.6	.9	3.6	.0	9.0	.0	.9	6.7	3.4	.2	8.6	.6	1.3	.0	69.2
1800	9.8	2.0	3.0	.2	10.2	.2	.2	10.0	3.2	.0	7.0	1.0	1.0	.0	67.7
TOT PCT	9.9	2.3	2.7	.1	9.3	.2	.4	19.5	3.6	.1	7.6	.6	.8	.1	67.6
TOT OBS:	2067														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15
N	.4	2.7	9.1	3.7	1.5	.2		13.5	19.9		12.5	11.4	14.5	14.9	12.6	13.4
NE	.6	1.7	2.3	1.3	.6	.1		6.2	18.0		5.7	4.2	6.1	7.1	6.3	7.1
E	.3	1.5	2.4	1.2	.5	.0		5.9	17.2		5.9	7.3	6.8	6.3	5.0	4.2
SE	.2	1.6	3.0	1.7	.7	.0		7.3	18.9		9.4	10.1	6.2	7.3	6.6	7.6
S	.2	2.6	9.4	2.9	1.0	.1		12.1	18.5		11.2	11.8	11.3	9.8	13.3	10.2
SW	.2	3.1	7.3	4.3	1.5	.4		16.8	20.0		15.7	16.5	17.8	14.6	18.0	17.0
W	.3	3.1	8.3	6.4	2.2	.4		20.7	21.2		22.9	17.5	18.1	23.0	20.9	18.4
NW	.2	2.6	7.0	5.1	1.6	.4		16.8	20.2		16.0	19.6	18.2	16.9	16.3	18.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6							.6	.0		.8	.5	1.0	.0	.8	.4
TOT OBS	63	484	1048	678	236	41	2550		19.6		519	186	499	99	521	144
TOT PCT	2.5	19.0	41.1	26.6	9.3	1.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.0	4.6	4.6	2.9	.5			13.5	19.9		12.2	14.6	13.6
NE	.7	2.3	1.9	1.0	.1			6.2	18.0		5.3	6.3	6.3
E	.6	2.6	1.7	1.0	.1			5.9	17.2		6.3	6.7	4.8
SE	.3	3.0	2.1	1.4	.3			7.3	18.9		9.6	6.4	6.8
S	.8	3.0	4.1	2.1	.2			12.1	18.5		11.3	11.0	12.7
SW	1.2	3.9	6.1	2.6	1.0			16.8	20.0		15.9	17.3	17.8
W	1.4	6.3	7.4	4.1	1.4			20.7	21.2		21.7	18.9	20.3
NW	1.1	3.8	6.3	2.8	.8			16.8	20.2		17.0	18.0	16.9
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0
CALM	.6							.6	.0		.7	.8	.6
TOT OBS	203	913	871	493	108	2550		19.6			705	398	653
TOT PCT	8.0	35.8	34.2	17.8	4.2			100.0			100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1934-1970
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	.7	1.3	18.7	41.6	27.0	8.8	2.0	19.8	100.0	705
0600	.8	2.0	19.1	40.8	26.4	9.7	1.2	19.4	100.0	598
1200	.6	2.0	18.9	42.3	25.0	9.8	1.5	19.4	100.0	665
1800	.3	2.2	19.2	39.5	28.2	8.8	1.7	19.8	100.0	582
TOT	16	47	484	1048	678	236	41	19.6		2550
PCT	.6	1.8	19.0	41.1	26.6	9.3	1.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	.4	3.8	8.7		6.8
NE	.4	.1	.7	4.6		7.2
E	.3	.2	.8	4.8		7.2
SE	.2	.3	1.0	5.2		7.3
S	1.0	.8	1.9	9.1		6.9
SW	3.1	1.7	4.8	7.9		5.8
W	3.3	2.2	7.1	8.2		5.8
NW	1.7	1.8	5.3	6.8		6.1
VAR	.3	.0	.0	.0		.0
CALM	.1	.1	.1	.3		6.0
TOT OBS	176	122	403	872	1573	6.4
TOT PCT	11.2	7.8	25.6	55.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3999	4999	6499	7999			
.7	.1	.4	2.5	4.2	3.4	.6	.1	.1	.0	2.2	
.8	.0	.3	.8	1.3	1.2	.4	.1	.1	.0	.8	
1.2	.1	.3	.8	.8	1.0	.5	.2	.1	.3	.8	
1.3	.1	.5	.5	1.5	1.3	.1	.3	.1	.1	1.0	
2.8	.1	.8	1.7	2.1	1.7	.5	.3	.3	.2	2.3	
1.2	.1	.4	1.4	3.2	3.4	.7	.2	.1	.0	6.6	
.4	.1	.5	2.1	5.5	3.7	1.0	.3	.2	.1	6.9	
.3	.1	.5	2.0	3.8	3.4	.8	.2	.0	.1	4.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.0	.0	.1	.1	.1	.1	.0	.0	.0	.1	
139	9	60	187	354	299	71	26	17	13	398	1573
8.8	.6	3.8	11.9	22.5	19.0	4.5	1.7	1.1	.8	25.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >500	= OR >0
= OR >6500	1.1	1.8	1.9	1.9	1.9	1.9	1.9	1.9
= OR >5000	1.8	3.4	3.6	3.6	3.6	3.6	3.6	3.6
= OR >3500	4.4	7.8	8.2	8.2	8.2	8.2	8.2	8.2
= OR >2000	13.7	24.8	26.8	27.2	27.3	27.4	27.4	27.4
= OR >1000	24.7	43.5	47.8	49.0	49.6	49.7	49.8	49.8
= OR >600	30.5	53.0	59.0	60.5	61.4	61.6	61.7	61.7
= OR >300	31.1	54.6	61.8	63.9	65.0	65.2	65.4	65.4
= OR >150	31.2	54.8	62.3	64.4	65.6	65.8	66.0	66.0
= OR >0	31.4	55.6	63.9	67.0	69.3	71.7	74.3	74.7
TOTAL	495	878	1009	1058	1094	1132	1173	1179

TOTAL NUMBER OF OBS: 1573

PCT FREQ NH <5/8: 25.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.2	3.5	6.6	5.1	4.0	4.9	10.1	9.8	43.4	7.4	1736

PERIOD: (PRIMARY) 1934-1970
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.2	.3	.1	.5	.1	.2	*	.0	.0	1.6	
	NO PCP	.2	.3	.1	.6	1.6	.7	.0	.1	.0	.1	3.7	
	TOT %	.4	.5	.4	.7	2.0	.8	.2	.1	.0	.1	5.3	
1/2<1	PCP	.3	.2	*	*	.1	.3	.2	.1	.0	.0	1.3	
	NO PCP	.1	*	.2	.3	.3	.1	.1	.2	.0	.0	1.5	
	TOT %	.4	.3	.2	.3	.4	.4	.3	.3	.0	.0	2.8	
1<2	PCP	.4	.2	.3	.5	.3	.2	.1	.2	.0	.0	2.3	
	NO PCP	.2	.1	*	.3	.6	.1	.2	.1	.0	.0	1.5	
	TOT %	.6	.4	.4	.8	.9	.2	.2	.3	.0	.0	3.8	
2<5	PCP	.4	.4	.5	.8	1.1	.7	.5	.5	.0	.0	4.9	
	NO PCP	.5	.3	.3	.4	.7	1.4	.6	.7	.0	.0	4.9	
	TOT %	.9	.7	.8	1.2	1.8	2.1	1.1	1.3	.0	.0	9.8	
5<10	PCP	1.3	.8	.8	.6	.7	1.4	1.2	.6	.0	.0	7.3	
	NO PCP	3.8	1.1	1.1	1.7	3.5	4.9	6.1	4.5	.0	.1	26.9	
	TOT %	5.1	1.9	1.9	2.2	4.3	6.3	7.3	5.1	.0	.1	34.2	
10+	PCP	.3	.2	*	.2	.2	.2	.8	.4	.0	.0	2.3	
	NO PCP	7.0	2.5	1.8	1.5	3.0	7.2	10.3	8.1	.0	.4	41.8	
	TOT %	7.3	2.7	1.9	1.7	3.1	7.4	11.1	8.5	.0	.4	44.1	
TOT OBS													2044
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	.0	*	.0	.0	.0	*	.0	.1	.3	
	4-10	.0	.1	*	.1	.6	.1	.1	*	.0	.0	1.0	
	11-21	.1	.1	.1	.4	1.0	.4	*	*	.0	.0	2.2	
	22+	.2	.3	.3	.2	.4	.3	.1	*	.0	.0	1.7	
	TOT %	.3	.5	.4	.7	2.0	.8	.2	.1	.0	.1	5.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	*	.1	.1	.2	*	.0	.0	.6	
	11-21	.1	.1	.1	.1	.3	.3	.1	.2	.0	.0	1.3	
	22+	.2	.1	*	.1	.1	*	.1	.1	.0	.0	.7	
	TOT %	.4	.2	.2	.3	.5	.4	.3	.3	.0	.0	2.6	
1<2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	*	.0	*	*	.1	.1	*	.1	.0	.0	.4	
	11-21	.1	.1	.2	.3	.5	.2	*	.0	.0	.0	1.4	
	22+	.4	.3	.1	.4	.3	.1	.2	.2	.0	.0	2.0	
	TOT %	.6	.4	.4	.8	.9	.4	.3	.3	.0	.0	3.9	
2<5	0-3	.0	.0	.0	.0	*	.1	*	.0	.0	.0	.1	
	4-10	.1	.4	.2	.1	.3	.2	.2	.1	.0	.0	1.6	
	11-21	.3	.1	.2	.5	.7	.8	.5	.5	.0	.0	3.5	
	22+	.6	.3	.3	.6	.7	1.1	.6	.7	.0	.0	5.0	
	TOT %	1.0	.8	.8	1.2	1.8	2.1	1.3	1.3	.0	.0	10.3	
5<10	0-3	.0	.0	.0	.1	*	*	.1	.1	.0	.1	.3	
	4-10	.9	.0	.5	.5	.6	1.0	.7	.5	.0	.0	5.4	
	11-21	1.6	.7	.9	.8	1.7	2.6	2.5	1.7	.0	.0	12.5	
	22+	2.1	.5	.6	.7	1.6	2.3	3.7	2.6	.0	.0	14.1	
	TOT %	4.6	1.7	2.0	2.0	3.9	6.0	7.0	4.9	.0	.1	32.3	
10+	0-3	.2	*	.2	*	.2	.1	.1	.1	.0	.3	1.3	
	4-10	1.5	.6	.7	.7	1.0	1.7	1.9	1.6	.0	.0	9.7	
	11-21	3.2	1.4	.8	.8	1.3	3.4	5.4	4.8	.0	.0	21.0	
	22+	2.0	.5	.3	.3	.8	2.6	4.5	2.9	.0	.0	13.7	
	TOT %	6.9	2.5	2.0	1.9	3.2	7.7	11.8	9.4	.0	.3	45.7	
TOT OBS													2317
TOT PCT													100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	9.8	.3	3.8	9.3	21.4	17.4	4.3	1.8	1.5	1.0	70.5	29.5	397
06009	10.3	.8	3.2	7.7	20.6	20.6	3.7	2.4	.8	.5	70.4	29.6	379
12015	8.2	.2	3.6	14.4	22.8	20.9	5.0	1.2	1.2	1.2	78.8	21.2	416
18021	6.4	1.0	4.5	14.8	23.3	16.9	4.8	1.7	.7	.5	74.5	25.5	420
TOT	139	9	61	188	356	305	72	28	17	13	1188	424	1612
PCT	8.6	.6	3.8	11.7	22.1	18.9	4.5	1.7	1.1	.8	73.7	26.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	5.1	2.4	4.3	10.9	34.7	42.5	623
06009	4.5	1.8	3.4	10.5	34.1	45.7	554
12015	5.7	2.6	3.6	9.7	32.6	45.7	610
18021	5.4	3.4	4.7	10.3	27.8	48.9	554
TOT	122	60	91	242	758	1068	2341
PCT	5.2	2.6	3.9	10.3	32.4	43.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 3+	TOTAL OBS
(GMT)						
00003	10.3	15.0	32.0	41.1	26.9	387
06009	10.3	14.9	28.0	46.2	25.8	368
12015	8.3	14.2	37.2	44.3	18.6	409
18021	6.5	14.3	33.8	42.5	23.7	414
TOT	139	230	519	686	373	1578
PCT	8.8	14.6	32.9	43.5	23.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	.0	.1	.2	5	.4
45/49	.0	.0	.1	.0	.1	.4	1.3	4.4	87	6.4
40/44	.0	.0	.0	.1	.9	2.3	4.5	10.6	250	18.3
35/39	.0	.0	.1	.9	2.3	6.1	10.1	16.1	485	35.6
30/34	.0	.1	.1	.4	2.7	8.8	8.7	8.7	375	27.5
25/29	.0	.0	.0	.2	1.0	2.6	2.9	3.1	135	9.9
20/24	.0	.0	.0	.0	.0	.4	.7	.5	22	1.6
15/19	.0	.0	.0	.0	.1	.0	.1	.1	4	.3
TOTAL	0	1	4	23	97	254	388	596	1363	100.0
PCT	.0	.1	.3	1.7	7.1	18.6	28.5	43.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0
45/49	.0	.0	.6	1.2	3.4	.5	.3	.1	.0	.2
40/44	1.4	1.2	.9	2.3	4.9	4.4	2.1	1.2	.0	.0
35/39	5.9	3.1	1.8	1.5	3.5	7.6	7.2	4.8	.0	.1
30/34	5.6	2.3	1.5	1.3	1.0	3.1	6.6	6.0	.0	.1
25/29	1.9	.2	.6	.1	.1	.8	3.1	3.2	.0	.0
20/24	.1	.0	.0	.1	.0	.0	.5	.8	.0	.0
15/19	.1	.0	.0	.0	.0	.0	.2	.1	.0	.0
TOTAL	14.9	6.9	5.4	6.6	13.1	16.3	20.0	16.1	.0	.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	55	48	45	35	25	19	18	35.7	697
06009	52	48	45	35	26	22	18	35.5	593
12015	54	49	45	35	26	21	17	35.5	652
18021	51	48	45	36	27	22	16	35.8	576
TOT	55	48	45	35	26	21	16	35.6	2518

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	2.7	7.0	17.5	32.1	40.7	83	371
06009	.0	1.1	8.3	17.5	25.9	47.1	86	348
12015	.0	1.8	5.2	20.9	28.3	43.7	86	325
18021	.0	2.4	7.8	19.3	26.2	44.3	86	332
TOT	0	28	98	258	388	604	86	1376

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	13 14	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.1	.2	.1		7	.2	.2
9/10	.0	.0	.0	.0	.0	.0	.1	.7	.6	.2	27	.5	1.0
7/8	.0	.0	.0	.0	.0	.0	.4	1.1	.9	.2	43	.8	1.7
6	.0	.0	.0	.0	.0	.0	.4	.7	.7	.1	35	.6	1.4
5	.0	.0	.0	.0	.0	.2	1.1	.8	1.0	.2	58	.6	2.7
4	.0	.0	.0	.0	.0	.3	1.6	1.5	.6	.0	71	.7	3.3
3	.0	.0	.0	.0	.0	.4	1.5	1.5	.8	.1	75	.7	3.5
2	.0	.0	.0	.0	.0	1.3	2.1	1.4	.5	.0	96	1.0	4.4
1	.0	.0	.0	.0	.3	2.5	3.1	1.2	.4	.0	133	1.0	6.5
0	.0	.0	.0	.0	.7	3.4	3.4	1.6	.3	.0	167	.4	9.0
-1	.0	.0	.0	.0	1.0	4.2	2.3	1.0	.2	.0	193	.4	8.2
-2	.0	.0	.0	.2	1.3	3.3	1.8	.8	.2	.0	196	.5	7.1
-3	.0	.0	.0	.2	1.5	3.8	1.1	.4	.0	.0	123	.2	6.7
-4	.0	.0	.0	.4	2.7	3.0	1.7	.2	.0	.0	144	.1	8.0
-5	.0	.0	.1	.8	1.6	2.0	1.0	.1	.1	.0	100	.1	5.5
-6	.0	.0	.1	1.0	1.7	2.4	.4	.1	.0	.0	100	.0	5.6
-7/-8	.0	.0	.3	1.7	2.8	2.3	.8	.1	.1	.0	145	.1	8.1
-9/-10	.0	.1	.6	2.1	2.0	1.2	.1	.0	.0	.0	108	.0	6.1
-11/-13	.0	.1	.5	.7	.4	.4	.1	.0	.0	.0	39	.0	2.2
-14/-16	.1	.3	.4	.1	.1	.2	.0	.0	.0	.0	19	.0	1.1
-17/-19	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	1	9	37	125	551	551	236	13	1784		137	1647	
PCT	.1	.5	2.1	7.0	16.1	30.9	22.9	13.2	6.4	.7	100.0	7.7	92.3

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.3	.1	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.1
1-2	.6	1.5	.5	.0	.0	.0	2.6	.0	.4	.0	.0	.0	.0	.9
3-4	.0	.4	2.1	.4	.0	.0	2.9	.0	.3	.7	.1	.0	.0	1.1
5-6	.0	.2	1.5	.4	.1	.0	2.2	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	1.4	1.5	.3	.1	3.3	.0	.1	.1	.4	.4	.0	1.1
8-9	.0	.0	.4	.9	.3	.0	1.6	.0	.0	.0	.3	.4	.0	.8
10-11	.0	.0	.4	.8	.4	.0	1.6	.0	.0	.0	.6	.1	.0	.7
12	.0	.0	.0	.1	.1	.1	.4	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	1.0	.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.4	6.4	5.0	2.4	.3	17.2	.0	1.1	2.0	1.5	1.2	.0	5.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0	.2
1-2	.0	.1	.5	.0	.0	.0	.7	.0	.6	.2	.0	.0	.0	.8
3-4	.0	.1	.7	.1	.0	.0	1.0	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.4	.3	.3	.0	.0	1.0	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.3	.4	.4	.0	1.1	.0	.0	.1	.1	.1	.0	.4
8-9	.0	.0	.3	.3	.0	.0	.6	.0	.0	.3	.2	.2	.0	.7
10-11	.0	.0	.0	.7	.0	.0	.2	.0	.0	.0	.1	.2	.0	.3
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.1	.3	.0	.0	.0	.3	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	2.1	1.4	.6	.1	5.2	.2	.8	1.2	.9	.7	.1	3.8

PERIOD: (OVER-ALL) 1963-1970

DECEMBER
TABLE 18 (CONT)AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.0	.0	.0	.0	.0	.3	.0	.6	.0	.0	.0	.0	.6	
1-2	.1	1.4	.1	.0	.0	.0	1.6	.0	1.3	1.0	.0	.0	.0	2.4	
3-4	.0	.6	2.1	.1	.0	.0	2.8	.0	.2	2.3	.6	.0	.0	3.2	
5-6	.0	.1	2.8	.8	.1	.0	3.9	.0	.0	2.4	1.6	.0	.0	4.0	
7	.0	.1	1.1	.7	.0	.0	1.9	.0	.0	1.4	1.2	.1	.0	2.7	
8-9	.0	.0	.3	.3	.1	.0	.7	.0	.0	.7	1.1	.1	.0	1.9	
10-11	.0	.0	.1	.3	.6	.0	.9	.0	.0	.9	1.2	.0	.1	1.9	
12	.0	.0	.1	.3	.3	.0	.7	.0	.1	.3	.1	.2	.1	.9	
13-16	.0	.0	.0	.8	.7	.0	1.5	.0	.0	.1	.9	1.3	.4	2.6	
17-19	.0	.0	.0	.1	.0	.1	.3	.0	.0	.0	.4	.2	.0	.6	
20-22	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	2.3	6.5	3.3	1.7	.2	14.6	.0	2.3	8.8	7.1	2.4	.8	21.4	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.2	
1-2	.1	1.3	.8	.0	.0	.0	2.2	.0	1.1	.4	.0	.0	.0	1.4	
3-4	.0	.6	1.5	.3	.0	.0	2.3	.1	.2	2.1	.1	.0	.0	2.6	
5-6	.0	.3	1.8	.8	.0	.0	2.9	.0	.1	2.3	.4	.1	.0	3.0	
7	.0	.0	1.1	.6	.1	.0	1.8	.0	.0	.8	1.0	.3	.0	2.2	
8-9	.0	.0	.3	1.2	.3	.0	1.7	.0	.1	.1	1.1	.2	.0	1.5	
10-11	.0	.0	.3	1.0	.0	.0	1.2	.0	.0	.3	.4	.4	.0	1.1	
12	.0	.0	.0	.3	.1	.0	.4	.0	.0	.1	.5	.1	.1	.9	
13-16	.0	.0	.5	1.3	.4	.2	2.4	.0	.0	.2	.1	.5	.3	1.1	
17-19	.0	.0	.0	.3	.3	.0	.6	.0	.0	.1	.1	.1	.3	.7	
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.1	.3	.4	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	2.3	6.2	5.6	1.7	.3	16.4	.1	1.8	6.5	3.9	1.8	.7	14.8	99.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.2	1.8	.1	.0	.0	.0	3.1	
1-2	.9	7.9	3.8	.0	.0	.0	12.6	
3-4	.1	2.6	11.7	1.8	.0	.0	16.3	
5-6	.0	1.2	12.2	4.3	.4	.0	18.0	
7	.0	.3	6.3	6.0	1.8	.1	14.5	
8-9	.0	.1	2.3	5.3	1.6	.0	9.4	
10-11	.0	.0	1.6	4.5	1.6	.1	7.9	
12	.0	.1	.6	1.3	1.2	.4	3.7	
13-16	.0	.0	.7	4.5	3.4	1.0	9.7	
17-19	.0	.0	.1	1.0	1.3	.4	2.9	
20-22	.0	.0	.0	.1	.3	.3	.7	
23-25	.0	.0	.0	.0	.7	.0	.7	
26-32	.0	.0	.0	.0	.1	.3	.4	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.2	14.1	39.6	28.6	12.5	2.8	100.0	682

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	2.8	7.2	5.6	2.5	.9	.8	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	298	5
6-7	.0	.1	2.3	7.6	6.9	4.9	3.4	1.3	2.2	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	413	8
8-9	.0	.0	.9	3.0	3.0	3.7	3.2	2.1	4.6	1.3	.4	.4	.1	.0	.0	.0	.0	.0	.0	317	10
10-11	.0	.1	.1	.6	1.2	1.0	2.6	1.2	2.4	.6	.4	.2	.1	.1	.0	.0	.0	.0	.0	148	11
12-13	.0	.0	.3	.1	.1	.1	.3	.4	.8	.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	39	12
15-16	.0	.0	.0	.1	.0	.1	.4	.1	.4	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	20	13
INDET	.7	1.4	2.2	1.7	2.4	1.1	1.1	.5	.4	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	170	6
TOTAL	16	63	181	265	227	165	166	89	137	41	16	11	7	1	0	0	0	0	0	1403	8
PCT	1.1	4.5	12.9	18.9	16.2	11.7	11.8	6.3	11.2	2.9	1.1	.8	.5	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1869-1971

ANNUAL

AREA 0004 SE NEWFOUNDLAND COAST
46.0N 51.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
N	4.1	1.3	3.0	.2	6.2	.1	.3	14.1	2.0	.0	12.3	.6	.6	.1	70.3
NE	6.7	1.8	4.6	.4	6.1	.1	.3	20.9	2.6	.0	17.5	.8	.3	.1	97.7
E	11.7	1.5	9.2	.2	6.6	.4	.2	24.7	2.7	.1	22.6	1.1	1.1	.1	47.7
SE	12.8	2.2	9.2	.4	9.0	.1	.5	25.3	2.2	.2	27.7	.9	1.1	.1	42.6
S	9.6	2.1	3.6	.1	2.9	.1	.1	18.0	2.5	.2	30.2	1.2	1.0	.0	46.9
SW	3.8	1.1	2.0	.1	4.7	.1	.2	11.4	2.1	.1	22.5	.9	1.1	.0	61.9
W	1.8	1.2	1.4	.1	5.4	.0	.3	9.7	2.9	.1	10.9	.7	1.0	.1	74.7
NW	2.6	1.7	1.7	.0	5.5	.1	.4	11.4	3.0	.1	9.2	.8	.6	.1	74.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1	.8	1.4	.0	.6	.0	.0	3.9	.8	.8	31.1	2.2	2.2	.0	99.1
TOT PCT	5.5	1.4	2.7	.1	5.1	.1	.3	14.6	2.4	.1	19.9	.8	.9	.1	61.2
TOT OBS: 29317															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
00003	5.9	1.6	3.0	.2	5.0	.1	.3	15.3	2.1	.2	18.5	.6	.9	.1	62.3
06009	6.4	1.6	3.2	.2	5.5	.1	.1	16.2	3.0	.2	19.4	.8	.5	.0	60.0
12015	4.9	1.2	2.8	.1	4.9	.1	.4	13.9	2.1	.0	21.5	.9	.9	.0	60.6
18021	4.8	1.4	2.0	.1	5.0	.1	.2	13.1	2.6	.0	20.5	1.0	1.2	.0	61.6
TOT PCT	5.5	1.4	2.7	.1	5.1	.1	.3	14.6	2.4	.1	20.0	.8	.9	.1	61.2
TOT OBS: 29847															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	2.8	4.8	2.4	.7	.1		11.2	16.6		10.8	9.8	11.5	11.2	11.3	11.7	11.4	11.0
NE	.3	2.4	3.2	1.2	.3	.0		7.4	15.0		8.4	6.8	7.1	6.8	7.2	6.4	7.8	7.9
E	.3	2.2	2.5	.9	.2	.0		6.1	13.8		5.7	6.3	6.0	6.4	5.9	6.2	6.5	6.5
SE	.4	2.4	3.2	1.2	.3	.0		7.5	15.1		8.0	7.7	7.0	7.2	7.4	8.9	7.2	7.6
S	.3	4.7	6.5	2.6	.4	.1		14.8	15.8		15.2	14.7	13.8	13.9	14.2	14.8	15.7	15.9
SW	.6	6.1	10.2	3.9	.7	.1		21.5	16.6		21.8	21.8	21.5	20.9	20.6	20.9	22.3	22.7
W	.4	4.1	7.7	4.1	1.4	.2		17.9	17.4		17.6	19.6	18.9	18.5	18.3	16.9	16.6	17.1
NW	.2	2.8	5.1	2.9	.8	.1		12.0	17.1		11.1	12.3	12.1	13.7	12.8	13.5	11.1	10.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0		1.5	.9	2.0	1.3	2.3	.7	1.5	.9
TOT OBS							29978		16.1		5752	1941	5428	1406	6157	2148	5969	1177
TOT PCT	4.7	27.6	43.1	19.1	4.9	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	1.4	4.4	3.6	1.5	.2			11.2	16.6		10.5	11.4	11.4	11.3	
NE	1.2	3.4	2.2	.6	.1			7.4	15.0		8.0	7.0	7.0	7.8	
E	1.1	2.9	1.6	.4	.1			6.1	13.8		5.8	6.0	6.0	6.4	
SE	1.3	3.5	1.9	.7	.1			7.5	15.1		7.9	7.1	7.8	7.3	
S	2.2	6.9	4.3	1.2	.2			14.8	15.8		15.1	13.9	14.4	15.8	
SW	2.7	10.0	6.8	1.8	.3			21.5	16.6		21.8	21.4	20.7	22.3	
W	1.7	7.1	5.9	2.6	.5			17.9	17.4		18.1	18.8	17.9	16.7	
NW	1.2	4.7	4.0	1.8	.3			12.0	17.1		11.4	12.5	12.9	11.0	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	1.6							1.6	.0		1.4	1.9	1.9	1.4	
TOT OBS						29978			16.1		7693	6834	8305	7146	
TOT PCT	14.5	42.8	30.2	10.7	1.8			100.0			100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.4	3.0	28.4	43.6	18.6	4.3	.7	15.9	100.0	7693
06009	1.9	2.5	26.7	44.5	19.4	4.5	.4	16.1	100.0	6834
12015	1.9	3.8	28.5	41.9	18.2	5.2	.6	15.9	100.0	8305
18021	1.4	3.0	26.6	42.3	20.6	5.6	.6	16.6	100.0	7146
TOT								16.1		29978
PCT	1.6	3.1	27.6	43.1	19.1	4.9	.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.8	2.5	6.6		6.4
NE	.7	.4	1.3	4.8		6.7
E	.5	.2	.9	4.8		7.0
SE	.5	.3	.8	5.8		7.1
S	1.7	.8	2.2	10.0		6.7
SW	4.5	1.8	4.2	10.8		5.8
W	4.6	2.2	4.7	6.6		5.1
NW	2.1	1.1	3.2	5.2		5.7
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.3	.8		5.1
TOT OBS					18420	6.1
TOT PCT	16.6	7.8	20.2	55.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	ROCD+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
1.1	.1		.4	1.4	2.7	2.0	.4	.1	.1	.1	2.9	
1.1	.1		.3	1.0	1.4	1.1	.3	.1	.1	.1	1.7	
1.4	.1		.4	.7	1.1	.9	.2	.1	.1	.1	1.2	
1.9	*		.4	.9	1.4	.9	.2	.1	.1	.2	1.3	
4.4	.1		.5	1.3	2.1	1.3	.5	.2	.2	.4	3.8	
4.4	.1		.5	1.6	2.8	2.1	.6	.2	.3	.4	8.3	
1.2	*		.4	1.3	3.2	2.7	.6	.2	.2	.2	8.3	
.6	.1		.3	1.2	2.7	2.1	.4	.2	.1	.1	3.9	
.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	
.5	*		*	.1	.1	.1	.4	.4	.4	.7		
16.6	.4		3.2	9.5	17.5	13.1	3.3	1.1	1.2	1.6	32.1	18420
												100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.5	2.5	2.8	2.8	2.8	2.8	2.9	2.9
= OR >5000	2.1	3.5	3.9	3.9	3.9	4.0	4.0	4.0
= OR >3500	3.9	6.5	7.0	7.1	7.2	7.2	7.2	7.2
= OR >2000	10.0	18.1	19.7	20.0	20.1	20.2	20.3	20.3
= OR >1000	17.3	32.1	35.9	36.8	37.3	37.5	37.6	37.7
= OR >600	20.5	38.6	44.1	45.8	46.6	47.0	47.2	47.3
= OR >300	20.9	39.9	46.4	48.5	49.6	50.1	50.4	50.4
= OR >150	21.0	40.2	46.8	49.0	50.1	50.6	51.0	51.1
= OR >0	21.1	40.6	47.9	51.2	53.8	57.2	65.7	67.7

TOTAL NUMBER OF OBS: 18920

PCT FREQ NH <5/8: 32.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.0	9.2	6.1	4.5	3.8	3.9	7.3	6.9	35.0	15.2	19832

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.2	.2	.5	.4	.2	.1	.0	*	1.8	
	NO PCP	.7	.8	.9	1.5	3.7	3.8	.9	.4	.0	.5	13.2	
	TOT %	.8	.9	1.1	1.7	4.2	4.2	1.1	.6	.0	.5	14.9	
1/2<1	PCP	.2	.1	.1	.2	.2	.2	.2	.1	.0	*	1.3	
	NO PCP	.7	.2	.2	.3	.5	.5	.2	.1	.0	*	2.3	
	TOT %	.4	.3	.3	.4	.7	.7	.4	.3	.0	*	3.6	
1<2	PCP	.2	.2	.2	.3	.3	.2	.1	.1	.0	*	1.6	
	NO PCP	.2	.2	.2	.2	.4	.5	.2	.1	.0	*	2.0	
	TOT %	.4	.5	.3	.4	.7	.7	.3	.2	.0	.1	3.6	
2<5	PCP	.4	.4	.5	.6	.6	.5	.3	.3	.0	*	3.5	
	NO PCP	.6	.4	.3	.4	.8	1.2	.7	.5	.0	.1	4.9	
	TOT %	.9	.8	.8	1.0	1.4	1.6	1.0	.8	.0	.1	8.4	
5<10	PCP	.7	.5	.5	.7	.8	.4	.9	.7	.0	*	5.3	
	NO PCP	3.2	1.9	1.4	1.6	3.2	5.9	5.1	3.3	.0	.3	25.4	
	TOT %	3.9	2.4	1.9	2.2	3.9	6.3	6.0	4.0	.0	.3	30.9	
10+	PCP	.7	.1	.1	.1	.1	.1	.3	.2	.0	*	1.1	
	NO PCP	4.8	2.5	1.7	1.7	3.9	7.7	8.9	5.6	.0	.6	37.5	
	TOT %	5.0	2.6	1.8	1.8	4.0	7.8	9.1	5.8	.0	.6	38.6	
TOT OBS													25222
TOT PCT													11.3 7.5 6.3 7.6 14.9 21.3 17.9 11.6 .0 1.6 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.1	.2	.2	.1	*	.0	.5	1.2	
	4-10	.3	.4	.5	.6	1.3	1.2	.4	.2	.0		5.0	
	11-21	.3	.3	.3	.7	2.0	2.1	.5	.2	.0		6.3	
	22+	.1	.1	.1	.2	.7	.7	.1	.1	.0		2.1	
	TOT %	.8	.9	1.0	1.7	4.1	4.1	1.0	.5	.0	.5	14.6	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	.1	.2	
	4-10	.1	.1	.1	.1	.2	.2	.1	.1	.0		1.0	
	11-21	.1	.1	.1	.2	.3	.3	.1	.1	.0		1.4	
	22+	.1	.1	.1	.1	.2	.2	.1	.1	.0		.9	
	TOT %	.4	.3	.3	.4	.7	.7	.4	.2	.0	.1	3.5	
1<2	0-3	*	*	*	*	*	*	*	*	.0	.1	.1	
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0		.8	
	11-21	.2	.2	.2	.2	.3	.4	.1	.1	.0		1.5	
	22+	.1	.2	.1	.2	.2	.2	.1	.1	.0		1.2	
	TOT %	.4	.5	.3	.4	.7	.7	.4	.2	.0	.1	3.7	
2<5	0-3	*	*	*	*	*	*	*	*	.0	.1	.3	
	4-10	.1	.2	.2	.1	.3	.3	.2	.1	.0		1.7	
	11-21	.4	.3	.3	.5	.6	.7	.4	.3	.0		3.5	
	22+	.4	.2	.3	.3	.5	.6	.4	.3	.0		3.0	
	TOT %	.9	.8	.8	1.0	1.4	1.7	1.0	.8	.0	.1	8.4	
5<10	0-3	.1	*	.1	.1	.1	.1	.1	*	.0	.3	.8	
	4-10	.7	.6	.6	.6	1.0	1.4	1.1	.7	.0		6.7	
	11-21	1.6	1.0	.9	.9	1.7	3.0	2.3	1.6	.0		13.0	
	22+	1.4	.6	.3	.6	1.0	1.6	2.3	1.5	.0		9.3	
	TOT %	3.7	2.3	1.8	2.2	3.8	6.1	5.7	3.8	.0	.3	29.8	
10+	0-3	.2	.1	.1	.1	.2	.2	.2	.1	.0	.7	1.9	
	4-10	1.4	1.0	.8	.8	1.7	2.6	2.2	1.6	.0		12.1	
	11-21	2.4	1.3	.8	.8	1.8	3.8	4.3	3.0	.0		17.9	
	22+	1.1	.4	.2	.2	.5	1.6	2.7	1.5	.0		8.1	
	TOT %	5.1	2.8	1.8	1.9	4.1	8.1	9.3	6.2	.0	.7	40.0	
TOT OBS													27683
TOT PCT													11.2 7.5 6.1 7.6 14.8 21.5 17.9 11.8 .0 1.6 100.0

PERIOD: (PRIMARY) 1928-1971
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	16.8	.6	2.9	8.9	16.1	11.8	3.5	1.0	1.2	1.8	64.6	33.4	4635
06009	19.6	.5	2.8	7.9	17.1	13.2	2.8	.8	1.1	1.3	67.0	33.0	4599
12015	15.5	.7	3.6	10.0	18.3	14.4	3.5	1.2	1.3	1.6	70.1	29.9	4777
18021	14.4	.7	3.4	10.9	17.3	12.0	3.0	1.3	1.2	1.8	66.0	34.0	4941
TOT PCT	16.5	.6	3.2	9.5	17.2	12.9	3.2	1.1	1.2	1.6	66.9	33.1	18952 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	14.2	3.4	3.6	7.7	32.6	38.4	7083
06009	15.5	3.3	3.4	8.2	29.3	40.3	6354
12015	15.4	4.1	1.7	8.8	29.1	39.0	7742
18021	14.0	3.2	3.9	8.8	27.8	42.3	6843
TOT PCT	14.7	3.5	3.7	8.4	29.7	40.0	28222 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	17.2	22.2	36.2	31.2	32.6	4503
06009	19.9	24.6	37.4	32.4	30.2	4491
12015	15.4	21.9	38.4	33.7	27.9	4694
18021	14.5	20.9	37.2	31.3	31.5	4832
TOT PCT	16.7	22.4	37.3	32.1	30.6	18520 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	*	.0	.0	*	.0	*	*
70/74	.0	.0	.0	*	*	.0	*	.0	*	*
65/69	.0	.0	*	*	*	.1	.1	.2	.5	.5
60/64	.0	.0	*	*	.1	.4	1.0	1.7	3.2	3.2
55/59	.0	.0	*	*	.3	1.0	3.1	5.5	9.9	9.9
50/54	*	*	*	*	.5	1.2	4.2	7.1	13.1	13.1
45/49	.0	.0	*	.1	.5	1.6	2.9	6.7	11.8	11.8
40/44	.0	*	*	.1	.8	1.7	3.3	7.9	14.0	14.0
35/39	.0	.0	*	.3	.9	2.1	5.1	11.9	20.4	20.4
30/34	.0	*	*	.2	.9	2.6	5.6	8.7	18.1	18.1
25/29	.0	.0	*	.2	.6	1.4	1.6	1.8	5.6	5.6
20/24	.0	.0	.0	*	.1	.7	.8	.6	2.2	2.2
15/19	.0	.0	*	*	.1	.1	.3	.3	.9	.9
10/14	.0	.0	.0	.0	*	*	.1	.1	.3	.3
TOTAL PCT	*	.1	.2	1.1	4.9	13.0	28.1	52.7	16145 100.0	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	*	.0	.0	.0	.0
.0	.0	.0	.0	*	*	.0	.0	.0	.0
*	*	*	*	.1	.2	.1	*	.0	.0
.1	.1	.1	.2	.9	1.1	.7	.1	.0	*
.5	.4	.5	.7	2.2	3.2	1.8	.5	.0	.2
1.1	.7	.7	1.0	2.6	3.8	2.0	1.0	.0	.2
1.0	.9	.8	1.2	2.3	2.7	1.7	1.0	.0	.2
1.4	1.2	1.0	1.3	2.6	2.8	2.0	1.3	.0	.3
2.8	2.2	1.8	1.6	2.5	4.0	3.0	2.3	.0	.2
3.1	1.7	1.3	1.1	1.5	2.9	3.6	2.7	.0	.1
.9	.3	.2	.3	.3	.6	1.8	1.2	.0	*
.3	.1	*	*	*	.1	.8	.8	.0	*
.1	*	*	.0	.0	*	.4	.3	.0	.0
*	.0	.0	.0	.0	.0	.1	.1	.0	.0
11.3	7.6	6.6	7.6	14.9	21.5	18.0	11.3	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	52	49	41	33	29	7	42.6	7717
06009	68	51	48	41	33	30	9	42.2	6888
12015	75	53	50	42	33	29	7	43.1	8329
18021	80	55	51	43	34	31	10	43.8	7156
TOT	80	53	49	42	33	30	7	42.9	30090

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.1	4.1	12.1	27.6	53.1	89	4292
06009	.0	.9	4.3	11.2	27.1	56.5	89	4119
12015	*	1.5	4.7	13.7	27.4	52.7	88	4186
18021	.0	1.9	6.4	15.2	30.1	46.3	87	3882
TOT	1	210	788	2093	4593	8792	88	16479

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TABLE 17

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	NO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	*	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	*	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	61	*	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	.1	.1	.1	.1	.0	.0	199	.2	.6
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.3	.3	.2	.2	.1	.1	.0	.0	405	.5	1.2
7/8	.0	.0	.0	.0	.0	.0	.0	.1	.8	.6	.7	.5	.5	.4	.3	.1	.0	.0	944	1.3	2.6
6	.0	.0	.0	.0	.0	.0	.0	.3	.7	.6	.5	.5	.4	.4	.2	.0	.0	.0	828	1.2	2.3
5	.0	.0	.0	.0	.0	.0	.0	.6	1.3	.7	.8	.7	.6	.5	.2	.0	.0	.0	1312	1.8	3.9
4	.0	.0	.0	.0	.0	.0	.1	1.2	1.3	1.1	.9	.8	.8	.7	.3	.0	.0	.0	1685	2.3	4.8
3	.0	.0	.0	.0	.0	.2	1.8	1.4	1.1	1.0	.9	1.2	.9	.3	.1	.0	.0	.0	2019	2.5	6.2
2	.0	.0	.0	.0	.0	.5	2.5	1.5	1.2	.9	1.1	1.2	.9	.3	.0	.0	.0	.0	2321	2.8	7.4
1	.0	.0	.0	.0	.0	.8	1.0	2.6	1.4	1.0	1.0	1.1	1.2	.8	.3	.0	.0	.0	2368	2.3	8.2
0	.0	.0	.0	.0	.1	1.8	2.4	1.4	1.0	.9	.9	1.3	.6	.2	.0	.0	.0	.0	2302	1.9	8.6
-1	.0	.0	.0	.0	.2	1.5	1.6	.9	.6	.6	.8	.8	.3	.1	.0	.0	.0	.0	1631	1.2	6.3
-2	.0	.0	.0	.0	.4	1.5	1.0	.8	.5	.6	.7	.5	.2	.0	.0	.0	.0	.0	1321	.8	5.4
-3	.0	.0	.0	.0	.6	1.0	.9	.6	.4	.4	.4	.4	.1	.0	.0	.0	.0	.0	1006	.5	4.3
-4	.0	.0	.0	.0	.8	1.0	.6	.5	.3	.3	.4	.2	.1	.0	.0	.0	.0	.0	884	.4	3.9
-5	.0	.0	.0	.1	.6	.7	.5	.4	.3	.2	.2	.2	.1	.0	.0	.0	.0	.0	645	.2	2.9
-6	.0	.0	.0	.2	.5	.4	.5	.3	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	496	.1	2.4
-7/-8	.0	.0	.0	.7	.7	.5	.5	.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	656	.1	3.2
-9/-10	.0	.0	.2	.5	.5	.4	.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	436	.1	2.2
-11/-13	.0	.0	.4	.5	.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	335	.1	1.7
-14/-16	.0	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	148	.0	.8
-17/-19	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	.0	.4
-20/-22	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	.0	.2
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	.0
-26/-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
TOTAL																			22149		
PCT	*	.2	.4	1.1	2.2	4.8	10.8	17.5	14.1	10.5	9.7	9.8	9.5	6.5	2.2	.5	.1	*	100.0	20.3	79.7

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.1	.0	.0	.0	.8	.1	.6	.1	.0	.0	.0	.8
1-2	.1	1.0	.5	.0	.0	.0	1.5	.0	.9	.3	.0	.0	.0	1.4
3-4	.0	.5	1.4	.2	.0	.0	2.2	.0	.4	.9	.1	.0	.0	1.5
5-6	.0	.2	1.3	.4	.1	.0	1.9	.0	.1	.9	.1	.0	.0	1.2
7	.0	.0	.7	.7	.1	.0	1.6	.0	.1	.5	.3	.1	.0	.9
8-9	.0	.0	.3	.4	.1	.0	.9	.0	.0	.2	.3	.1	.0	.5
10-11	.0	.0	.2	.4	.2	.0	.8	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.2	.1	.0	.3	.0	.0	.1	.1	.0	.0	.2
13-16	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.2	4.5	2.7	.9	.1	10.8	.2	2.1	3.1	1.3	.4	*	7.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.0	.0	.0	.0	.6	.2	.4	.1	.0	.0	.0	.6
1-2	.1	.8	.5	.0	.0	.0	1.3	.1	1.0	.5	.0	.0	.0	1.6
3-4	.0	.3	.8	.1	.0	.0	1.3	.0	.4	1.2	.1	.0	.0	1.7
5-6	.0	.1	.9	.1	.0	.0	1.1	.0	.1	.9	.2	.0	.0	1.2
7	.0	.0	.4	.2	.0	.0	.7	.0	.0	.5	.3	.0	.0	.8
8-9	.0	.0	.1	.2	.0	.0	.4	.0	.0	.1	.2	.1	.0	.4
10-11	.0	.0	.0	.1	.0	.0	.2	.0	.0	.1	.3	.1	.0	.5
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.7	2.8	1.0	.3	.1	6.0	.3	2.0	3.3	1.3	.3	*	7.2

PERIOD: (OVER-ALL) 1963-1971

ANNUAL

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.1	.0	.0	.0	.8	.1	.9	.1	.0	.0	.0	1.1
1-2	.2	1.9	1.1	.0	.0	.0	3.2	.2	2.2	1.1	.0	.0	.0	3.4
3-4	.6	1.2	2.5	.4	.0	.0	4.1	.6	1.5	4.1	.4	.0	.0	6.0
5-6	.0	.3	1.9	.6	.1	.0	2.8	.0	.5	3.0	1.0	.1	.0	4.6
7	.0	.1	1.0	.6	.0	.0	1.7	.0	.1	1.6	1.2	.1	.0	3.0
8-9	.0	.0	.4	.5	.1	.0	.9	.0	.0	.7	.9	.1	.0	1.7
10-11	.0	.0	.1	.3	.1	.0	.5	.0	.0	.4	.7	.2	.0	1.5
12	.0	.0	.0	.2	.1	.0	.3	.0	.0	.1	.2	.1	.0	.5
13-16	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.3	.3	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.2	7.0	2.8	.6	.1	15.0	.4	5.2	11.2	4.9	1.0	.2	22.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.6	.0	.0	.0	.0	.8	.1	.4	.1	.0	.0	.0	.6	
1-2	.2	1.4	.7	.0	.0	.0	2.1	.2	1.0	.5	.0	.0	.0	1.6	
3-4	.6	1.1	2.7	.4	.0	.0	4.2	.6	.3	1.5	.2	.0	.0	2.2	
5-6	.0	.3	1.7	.5	.1	.0	2.7	.0	.1	1.4	.8	.0	.0	2.3	
7	.0	.0	1.1	.8	.1	.0	2.1	.0	.0	.7	.7	.1	.0	1.5	
8-9	.0	.0	.6	.7	.1	.0	1.5	.0	.0	.5	.4	.2	.0	1.1	
10-11	.0	.0	.3	.5	.2	.0	1.1	.0	.0	.2	.5	.1	.0	.9	
12	.0	.0	.0	.2	.2	.0	.5	.0	.0	.0	.3	.2	.0	.5	
13-16	.0	.0	.1	.5	.4	.1	1.1	.0	.0	.1	.4	.3	.0	.8	
17-19	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.1	.1	.1	.2	
20-22	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	3.5	7.3	3.8	1.7	.3	16.8	.7	2.1	4.9	3.4	1.0	.2	11.8	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.7	4.5	.5	.0	.0	.0	8.7	
1-2	1.0	10.1	5.1	.0	.0	.0	16.2	
3-4	.2	6.0	15.1	1.9	.0	.0	23.2	
5-6	.1	1.7	11.9	3.7	.5	.0	17.7	
7	.0	.4	6.6	4.8	.5	.0	12.3	
8-9	.0	.1	2.9	3.6	.7	.1	7.4	
10-11	.0	.1	1.2	3.1	1.0	.1	5.4	
12	.0	.1	.3	1.4	.7	.1	2.5	
13-16	.0	.0	.2	2.2	1.6	.2	4.2	
17-19	.0	.0	.1	.4	.7	.1	1.3	
20-22	.0	.0	.0	.1	.4	.2	.6	
23-25	.0	.0	.0	.0	.2	.0	.3	
26-32	.0	.0	.0	.0	.1	.2	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.9	22.9	43.9	21.1	6.2	.9	100.0	8411

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PPRCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	6.2	11.3	6.6	3.3	1.3	.5	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3182	4
6-7	.0	.7	4.6	7.2	6.9	3.7	2.5	1.2	1.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	4672	7
8-9	.0	.2	1.1	2.2	3.0	2.8	2.2	1.4	2.1	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	2590	9
10-11	.0	.1	.3	.6	1.0	.8	1.0	.8	.9	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	1006	10
12-13	.0	.0	.2	.2	.2	.2	.2	.3	.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	312	11
>13	.0	.0	.0	.1	.1	.1	.3	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	107	12
INDET	2.2	2.3	3.2	2.7	2.4	1.3	.8	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2664	5
TOTAL PCT	3.3	9.5	20.6	19.5	16.8	10.3	7.5	4.3	5.3	1.3	.8	.4	.3	.0	.0	.0	.0	.0	.0	16553	6

PERIOD: (PRIMARY) 1928-1971
(OVER-ALL) 1869-1971

TABLE 20

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.9W

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	.1
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	.4
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	276	1.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	541	2.0
57/58	.0	.0	.0	.0	.0	.2	2.9	18.9	19.2	2.0	.1	.1	929	3.5
55/56	.0	.0	.0	.0	.0	.2	8.7	22.5	21.3	3.8	.2	.1	1407	5.3
53/54	.1	.0	.0	.0	.0	.4	11.0	18.1	19.1	8.3	.2	.0	1412	5.3
51/52	.1	.1	.0	.0	.0	.5	15.4	9.0	16.8	13.5	.9	.0	1390	5.2
49/50	.1	.1	.1	.2	.2	1.7	17.3	4.9	10.0	17.4	3.7	.3	1382	5.2
47/48	.2	.1	.1	.1	.2	3.8	17.7	2.2	9.0	18.7	7.9	.5	1411	5.3
45/46	.3	.4	.2	.5	.8	9.5	14.7	.8	1.8	16.8	14.4	3.0	1620	6.1
43/44	.8	.4	.6	.3	1.6	13.2	7.6	.1	.6	10.2	16.2	6.3	1511	5.7
41/42	1.9	1.0	.7	1.2	4.2	24.1	2.2	.1	.4	5.2	20.4	10.2	1916	7.2
39/40	3.6	1.2	1.8	2.8	11.2	29.2	.5	.0	.0	1.9	17.0	13.7	2063	7.8
37/38	7.3	4.4	2.0	5.4	20.4	16.2	.3	.0	.0	.4	11.1	22.3	2168	8.2
35/36	18.0	10.1	6.7	14.2	27.4	3.7	.0	.0	.0	.1	5.5	20.9	2228	8.4
33/34	28.4	24.1	20.7	29.5	21.8	.9	.0	.0	.0	.1	1.7	13.6	2517	9.5
31/32	25.6	32.0	38.1	30.9	10.7	.2	.0	.0	.0	.0	.4	6.7	2321	8.7
29/30	11.6	20.8	25.5	13.4	1.5	.0	.0	.0	.0	.0	.1	1.9	1125	4.2
27/28	2.1	5.3	3.3	1.4	.0	.0	.0	.0	.0	.0	.0	.3	190	.7
25	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0
TOTAL	1957	1946	1253	1286	2611	3259	2267	2489	2512	2592	2516	2271	26559	100.0
MEAN	33.6	32.4	32.1	33.2	35.9	41.1	49.6	55.8	54.0	48.3	42.0	37.4	41.2	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1009	1011	1010	1010	1011	1011	1009	1010	1010	1896
FEB	1008	1008	1007	1009	1009	1009	1008	1008	1008	1642
MAR	1011	1011	1011	1008	1010	1009	1010	1009	1010	1397
APR	1012	1011	1011	1011	1011	1013	1011	1013	1011	1689
MAY	1013	1015	1015	1015	1018	1016	1014	1015	1015	2680
JUN	1014	1013	1014	1013	1014	1014	1014	1014	1014	3288
JUL	1016	1016	1016	1016	1016	1017	1016	1016	1016	2106
AUG	1015	1015	1015	1015	1015	1015	1015	1015	1015	2304
SEP	1016	1018	1016	1017	1016	1015	1016	1016	1016	2274
OCT	1015	1015	1014	1013	1015	1014	1014	1014	1014	2276
NOV	1016	1015	1014	1013	1015	1014	1015	1014	1015	2252
DEC	1011	1010	1011	1010	1011	1010	1010	1013	1011	2111
ANN	1013	1013	1013	1013	1013	1013	1013	1013	1013	25915
OBS	5108	1349	4837	1418	5464	1350	5219	1168		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	964	973	984	1001	1011	1019	1030	1035	1040
FEB	958	972	986	999	1009	1018	1027	1033	1045
MAR	958	971	986	1001	1012	1020	1031	1034	1045
APR	974	983	990	1004	1012	1019	1029	1034	1040
MAY	974	991	1000	1010	1018	1020	1028	1032	1038
JUN	984	993	1001	1010	1014	1019	1025	1029	1035
JUL	997	1001	1005	1012	1016	1020	1026	1030	1034
AUG	988	997	1004	1011	1016	1020	1025	1028	1033
SEP	982	996	1002	1011	1017	1021	1027	1031	1035
OCT	978	990	997	1008	1015	1022	1029	1034	1039
NOV	964	977	993	1007	1016	1024	1033	1037	1045
DEC	966	978	987	1003	1012	1019	1030	1035	1039

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER PRZG PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	2.3	1.9	2.0	.0	13.5	1.3	.0	20.2	1.8	.0	5.0	.0	.0	.3	72.7
NE	7.1	.9	2.6	.0	17.5	.6	.0	27.1	3.9	.0	7.4	.0	.0	.0	60.9
E	15.1	.6	4.7	.5	14.8	.8	.0	13.8	1.9	.0	7.9	1.1	.0	.0	54.7
SE	14.8	2.8	8.3	.7	10.4	.0	.0	15.4	3.8	.0	14.9	.3	.0	.0	43.3
S	24.4	1.2	5.6	.0	10.0	.0	.0	19.3	3.4	.0	8.1	1.7	.5	.0	48.9
SW	5.0	1.2	1.3	.7	12.9	.4	.3	21.4	5.1	.1	8.2	.3	.8	.3	63.8
W	1.4	.5	.9	.3	17.2	.3	.3	20.1	8.3	.3	2.8	.3	.6	.2	67.6
NW	1.3	.3	1.6	.3	17.0	.2	.1	20.4	8.4	.0	2.6	.5	.7	.5	66.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.4	.0	.0	.0	84.6
TOT PCT	6.5	1.0	2.6	.3	14.8	.4	.1	24.6	5.6	.1	5.8	.5	.5	.2	62.6
TOT OBS:	2337														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG MEA
0000	5.6	.2	2.1	.5	14.7	.3	.0	23.9	4.6	.0	6.6	.3	.9	.0	63.7
0600	6.2	1.2	2.7	.5	14.7	.2	.2	24.2	4.1	.0	4.4	.7	.0	.4	66.2
1200	5.8	1.1	2.7	.2	15.9	1.1	.0	25.3	5.3	.2	4.6	.2	.4	.2	63.3
1800	7.3	1.6	3.0	.0	13.6	.0	.3	25.0	8.4	.2	7.3	.7	.7	.3	57.3
TOT PCT	6.5	1.0	2.6	.3	14.7	.4	.1	24.6	5.6	.1	5.8	.5	.5	.2	62.7
TOT OBS:	2354														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	2.0	4.1	2.7	.6	.0		9.7	18.0	9.1	9.7	11.8	9.6	9.8	8.4	9.3	8.2	
NE	.2	1.3	2.8	2.0	.5	.0		6.9	18.6	6.4	9.7	6.4	6.6	6.5	5.4	7.4	8.0	
E	.2	1.3	2.3	1.6	.7	.1		6.2	19.3	5.6	4.4	4.3	6.8	7.2	4.4	7.8	9.2	
SE	.1	1.6	3.1	2.1	.6	.1		7.6	19.1	9.5	8.9	6.1	5.7	7.0	9.9	6.6	7.4	
S	.2	1.9	4.8	2.9	.9	.1		9.8	19.8	10.1	8.8	9.2	12.4	9.1	9.9	9.2	12.2	
SW	.2	2.0	6.3	3.3	.6	.7		12.7	19.2	13.6	10.1	12.2	13.5	11.6	18.6	11.0	15.3	
W	.3	3.4	9.5	10.5	4.1	.3		28.0	22.7	26.3	31.1	26.4	27.2	28.7	27.6	31.7	24.5	
NW	.3	3.1	7.6	9.2	2.2	.2		18.6	20.4	19.3	17.3	21.3	18.2	20.2	15.8	16.7	14.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5							.5	.0	.2	.0	2.1	.0	.0	.0	.2	1.0	
TOT OBS	60	461	1100	844	285	29	2779		20.2	566	227	484	170	507	176	451	198	
TOT PCT	2.2	16.6	39.6	30.4	10.3	1.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	1.0	3.7	3.5	1.5	.1		9.7	18.0	9.3	11.2	9.4	9.0	
NE	.7	2.3	2.8	1.1	.1		6.9	18.6	7.3	6.4	6.2	7.6	
E	.5	2.1	2.4	1.0	.3		6.2	19.3	5.3	5.1	6.5	8.2	
SE	.6	2.8	2.8	1.3	.1		7.6	19.1	9.3	6.0	7.8	6.9	
S	.8	3.4	3.3	1.9	.4		9.8	19.8	9.7	10.0	9.3	10.1	
SW	.8	4.5	5.3	1.7	.4		12.7	19.2	12.6	12.6	13.4	12.3	
W	1.2	7.3	10.3	8.2	1.0		28.0	22.7	27.6	29.6	28.4	29.5	
NW	1.2	6.1	7.0	3.7	.6		18.6	20.4	18.7	20.3	19.0	15.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.5						.5	.0	.1	1.5	.0	.5	
TOT OBS	199	893	1039	564	84	2779		20.2	793	894	683	649	
TOT PCT	7.2	32.1	37.4	20.3	3.0		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.1	2.3	17.8	39.8	29.6	9.2	1.1	19.8	100.0	793
06009	1.3	1.1	16.5	40.2	31.5	8.4	.8	19.7	100.0	654
12015	.0	2.0	17.6	39.7	30.2	9.5	1.0	19.9	100.0	683
18071	.9	1.1	14.2	38.5	30.4	14.2	1.2	21.6	100.0	649
TOT	14	46	461	1100	844	285	29	20.2		2779
PCT	.5	1.7	16.6	39.6	30.4	10.3	1.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.9	2.6	6.0		6.5
NE	1.0	.5	1.3	4.8		6.5
E	.6	.1	.9	5.4		7.0
SE	.1	.2	.9	6.2		7.5
S	.3	.3	1.6	6.7		7.3
SW	.8	.7	2.7	7.7		6.8
W	2.1	1.8	9.8	14.8		6.6
NW	1.7	1.8	6.4	7.8		6.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.3	.3		7.1
TOT OBS	145	119	300	1124	1888	6.7
TOT PCT	7.7	6.3	26.9	59.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIRECTION BY WIND SPEED											NH <5/8	TOTAL
000	150	300	600	1000	2000	3500	5000	6500	8000+	ANY HGT	OBS	
149	296	999	999	1999	3499	4999	6499	7999				
.5	.0	.2	1.2	3.1	2.1	.5	.1	.2	.2	7.5		
.7	.0	.2	1.0	2.0	1.4	.3	.1	.0	.2	1.9		
1.0	.2	.4	.7	2.2	.8	.3	.0	.1	.1	1.3		
1.2	.0	.7	1.0	1.9	1.3	.3	.1	.1	.1	.8		
1.3	.1	.3	.8	3.0	1.6	.2	.1	.1	.2	1.1		
.9	.0	.3	1.0	3.8	2.7	.4	.1	.1	.1	2.4		
.6	.2	.7	3.1	8.7	6.9	1.8	.4	.2	.1	5.8		
.3	.1	.5	1.8	5.2	3.9	.6	.3	.9	.1	4.5		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.1	.0	.1	.2	.1	.0	.1	.1		
122	11	62	201	565	390	85	25	18	21	1888		
6.5	.6	3.3	10.6	29.9	20.7	4.5	1.3	1.0	1.1	100.0		

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.3	2.0	2.0	2.1	2.1	2.1	2.1	2.1
= OR >5000	2.1	3.2	3.3	3.3	3.4	3.5	3.5	3.5
= OR >3500	4.5	7.4	7.6	7.7	7.9	8.0	8.0	8.0
= OR >2000	14.2	26.5	27.7	28.1	28.3	28.7	28.7	28.7
= OR >1000	26.9	51.1	55.7	57.1	57.7	58.2	58.3	58.3
= OR >600	31.2	58.6	64.9	67.1	68.2	68.8	68.9	69.0
= OR >300	32.0	60.5	67.4	69.9	71.2	72.1	72.3	72.4
= OR >150	32.0	60.7	67.7	70.2	71.8	72.7	72.9	73.0
= OR >0	32.0	61.1	68.6	71.9	74.6	77.1	79.0	79.2
TOTAL	602	1152	1293	1355	1405	1453	1489	1493

TOTAL NUMBER OF OBS: 1884

PCT FREQ NH <5/8: 20.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	9.6	3.4	4.5	4.4	4.0	5.4	10.9	10.8	47.2	2036

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.3	.4	.2	.5	.3	.2	.3	.0	.0	2.3	
	NO PCP	.1	.3	.2	.7	.4	.5	.2	.0	.0	*	2.6	
	TOT %	.3	.6	.7	1.0	.9	.7	.4	.3	.0	*	4.8	
1/2<1	PCP	.3	.7	.2	.3	.3	.1	.3	.2	.0	.0	2.0	
	NO PCP	.0	.1	.1	.2	.2	.3	.1	.0	.0	.0	1.0	
	TOT %	.3	.8	.3	.5	.5	.4	.4	.2	.0	.0	3.0	
1<2	PCP	.2	.3	.4	.3	.5	.7	.4	.3	.0	.0	2.7	
	NO PCP	.0	.1	.1	.1	.2	.1	.2	.1	.0	.0	.9	
	TOT %	.3	.4	.6	.5	.8	.8	.6	.4	.0	.0	3.7	
2<5	PCP	.6	.3	.6	.9	1.1	.7	1.0	.7	.0	.0	5.8	
	NO PCP	.2	.2	.3	.2	.4	.6	1.0	.2	.0	*	3.2	
	TOT %	.8	.6	1.0	1.1	1.4	1.3	1.9	.9	.0	*	9.0	
5<10	PCP	.6	.7	.5	.8	1.2	1.1	2.7	1.8	.0	.0	9.3	
	NO PCP	2.6	1.9	2.0	1.4	1.8	4.6	7.9	3.9	.0	.2	26.4	
	TOT %	3.2	2.6	2.5	2.3	3.0	5.7	10.5	5.8	.0	.2	35.8	
10+	PCP	.2	.1	*	.1	.2	.3	1.3	.4	.0	.0	2.7	
	NO PCP	5.1	2.7	1.7	2.2	2.6	3.7	13.0	9.7	.0	.3	41.0	
	TOT %	5.3	2.8	1.7	2.3	2.8	4.0	14.3	10.2	.0	.3	43.7	
TOT OBS													2334
TOT PCT		10.1	7.3	6.7	7.6	9.4	12.5	28.1	17.7	.0	.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	*	*	.0	.0	.0	.0	*	.1	
	4-10	.1	.1	.0	.2	.1	.1	.1	*	.0	*	.7	
	11-21	*	.2	.3	.4	.4	.4	.2	.1	.0		2.0	
	22+	.1	.2	.3	.4	.4	.3	.1	.1	.0		2.0	
	TOT %	.2	.6	.6	1.0	1.0	.8	.4	.3	.0	*	4.8	
1/2<1	0-3	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.1	
	4-10	.1	.1	.0	.1	.1	.0	.1	.1	.0		.5	
	11-21	.1	*	*	.2	.1	.1	.1	.2	.0		.9	
	22+	.1	.1	.2	.2	.3	.3	.2	*	.0		1.5	
	TOT %	.3	.3	.3	.4	.5	.4	.4	.3	.0	.0	2.9	
1<2	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	*	*	.1	*	.1	.1	.1	.1	.0		.7	
	11-21	.1	.2	.2	.3	.3	.2	.2	.1	.0		1.4	
	22+	.1	.1	.2	.2	.4	.1	.4	.2	.0		1.7	
	TOT %	.3	.4	.5	.6	.8	.4	.7	.3	.0	.0	3.9	
2<5	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	*	.1	
	4-10	.2	.1	.2	.3	.2	.3	.4	.1	.0		1.7	
	11-21	.2	.3	.2	.3	.5	.7	.5	.3	.0		2.9	
	22+	.4	.2	.3	.5	.7	.4	1.2	.6	.0		4.5	
	TOT %	.8	.6	.9	1.0	1.4	1.3	2.1	1.0	.0	*	9.2	
5<10	0-3	.1	.1	.1	.0	.0	.1	.1	*	.0	.2	.7	
	4-10	.3	.4	.3	.3	.4	.7	.9	.7	.0		4.0	
	11-21	1.4	.7	1.0	1.0	1.1	2.8	2.6	2.3	.0		12.9	
	22+	1.2	1.3	1.0	.9	1.4	1.9	6.5	2.6	.0		16.7	
	TOT %	3.0	2.5	2.4	2.1	2.9	5.5	10.1	5.6	.0	.2	34.4	
10+	0-3	*	.1	.1	.1	*	.1	.1	.3	.0	.3	1.0	
	4-10	1.3	.7	.7	.8	.9	.8	1.6	2.0	.0		9.0	
	11-21	2.4	1.4	.7	1.0	1.3	2.1	5.7	4.7	.0		19.3	
	22+	1.4	.6	.2	.6	.7	1.3	6.9	3.9	.0		15.6	
	TOT %	5.1	2.8	1.7	2.4	2.9	4.3	14.4	10.9	.0	.3	44.9	
TOT OBS													2575
TOT PCT		9.8	7.0	6.3	7.6	9.5	12.7	28.2	18.4	.0	.5	100.0	

PERIOD: (PRIMARY) 1945-1971
(OVER-ALL) 1878-1971

JANUARY

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	7.8	.8	3.3	9.6	29.9	21.9	3.5	1.2	1.0	.8	79.8	20.2	511
06009	8.0	.5	2.3	9.0	27.6	22.3	3.9	1.4	1.1	1.1	77.2	22.8	435
12015	3.7	.7	3.7	12.6	29.8	20.3	5.7	1.7	.7	1.7	80.6	19.4	459
18021	5.9	.4	3.9	11.0	30.8	17.9	4.7	1.0	1.0	1.0	77.6	22.4	509
TOT	122	11	64	202	567	393	85	25	18	22	1509	405	1914
PCT	6.4	.6	3.3	10.6	29.6	20.5	4.4	1.3	.9	1.1	78.8	21.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	5.6	3.2	2.9	8.4	37.3	42.6	727
06009	3.9	2.8	3.7	7.5	35.2	46.9	614
12015	3.3	2.7	4.8	9.5	33.9	45.8	629
18021	6.1	2.7	4.2	11.7	30.7	44.6	623
TOT	124	74	100	240	891	1164	2593
PCT	4.8	2.9	3.9	9.3	34.4	44.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<5000	<1	<5	AND 5+	AND 5+	OBS
00003	7.6	13.9	29.3	50.8	19.9	502
06009	8.0	13.0	25.0	52.8	22.2	424
12015	3.8	10.2	29.8	52.3	17.9	453
18021	5.9	11.7	30.9	48.7	20.4	505
TOT	119	230	544	962	378	1884
PCT	6.3	12.2	28.9	51.1	20.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
50/54	.0	.0	.0	.0	.0	.0	.2	.0	3	.2
45/49	.1	.0	.0	.1	.0	.3	.2	.8	24	1.5
40/44	.1	.1	.0	.2	.2	.6	1.5	5.4	131	8.1
35/39	.0	.0	.1	.1	1.6	3.8	8.4	17.0	501	31.0
30/34	.0	.1	.4	.6	1.8	5.6	10.7	14.6	543	33.6
25/29	.0	.1	.1	.2	1.6	3.3	3.3	6.6	246	15.2
20/24	.0	.0	.1	.3	.6	1.3	2.1	2.7	113	7.0
15/19	.0	.0	.0	.1	.5	.2	1.3	.7	44	2.7
10/14	.0	.0	.0	.0	.2	.0	.4	.1	10	.6
TOTAL	2	4	11	25	105	244	452	772	1615	100.0
PCT	.1	.2	.7	1.5	6.5	15.1	28.0	47.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
45/49	.0	.0	.1	.3	.5	.3	.1	.1	.0	.1
40/44	.2	.4	.6	1.1	2.6	2.0	.9	.4	.0	.0
35/39	3.5	3.6	2.6	3.4	3.1	4.9	6.9	2.8	.0	.2
30/34	3.4	2.1	2.5	2.6	2.2	3.9	11.4	5.3	.0	.2
25/29	1.4	.9	.9	.5	.6	1.1	5.2	4.8	.0	.0
20/24	.9	.3	.3	.1	.2	.3	2.4	2.4	.0	.0
15/19	.5	.3	.0	.0	.0	.0	1.0	.9	.0	.0
10/14	.2	.0	.0	.0	.0	.0	.1	.3	.0	.0
TOTAL	10.3	7.6	7.0	7.8	9.3	12.5	27.9	17.0	.0	.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	50	46	41	33	20	16	11	31.9	781
06009	50	46	41	33	21	15	12	32.2	650
12015	55	46	41	33	21	14	11	32.3	677
18021	50	46	42	34	21	17	11	32.8	636
TOT	55	46	41	33	21	16	11	32.3	2744

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	2.6	6.6	10.3	26.0	48.4	87	469		
06009	.5	2.9	5.6	12.2	30.6	47.1	86	408		
12015	.0	1.1	6.9	15.5	24.6	51.6	88	378		
18021	.0	3.2	7.0	10.9	30.8	44.1	86	370		
TOT	2	40	106	246	454	777	87	1625		

JANUARY

PERIOD: (PRIMARY) 1945-1971
(OVER-ALL) 1878-1971

TABLE 17

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.3	.2	.1		10	.0	.5
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.4	.4	.1	17	.1	.8
7/8	.0	.0	.0	.0	.0	.0	.2	.8	1.1	.3	.3	51	.2	2.4
6	.0	.0	.0	.0	.0	.0	.3	.9	.4	.1	.1	33	.3	1.4
5	.0	.0	.0	.0	.0	.0	.6	2.2	.9	.1	.0	73	.7	3.0
4	.0	.0	.0	.0	.0	.0	1.5	2.1	.6	.1	.0	82	.5	3.6
3	.0	.0	.0	.0	.0	.1	2.3	2.3	.4	.2	.0	102	.7	4.5
2	.0	.0	.0	.0	.0	.9	3.9	1.9	.3	.0	.0	138	.9	6.0
1	.0	.0	.0	.0	.0	.5	4.8	1.9	.1	.1	.0	146	.8	6.5
0	.0	.0	.0	.0	.0	1.4	5.6	1.4	.3	.0	.0	171	.4	8.2
-1	.0	.0	.0	.0	.2	2.3	3.7	.5	.1	.0	.0	132	.3	6.4
-2	.0	.0	.0	.0	.3	2.3	3.5	.8	.2	.0	.0	139	.2	6.8
-3	.0	.0	.0	.0	.5	3.3	2.0	.6	.0	.0	.0	125	.3	6.0
-4	.0	.0	.0	.1	1.1	2.5	1.0	.2	.1	.0	.0	97	.0	4.9
-5	.0	.0	.0	.1	1.3	2.8	1.0	.2	.0	.0	.0	104	.2	5.1
-6	.0	.0	.0	.5	1.2	2.0	1.1	.0	.0	.0	.0	93	.1	4.6
-7/-8	.0	.0	.0	1.2	3.7	1.8	.8	.1	.0	.0	.0	149	.2	7.3
-9/-10	.0	.0	.2	2.1	2.2	1.3	.4	.1	.0	.0	.0	123	.1	6.1
-11/-13	.0	.0	.8	2.5	1.2	1.0	.1	.0	.0	.0	.0	112	.1	5.5
-14/-16	.0	.4	1.4	.8	.1	.3	.1	.0	.0	.0	.0	59	.0	3.0
-17/-19	.1	.6	.3	.0	.1	.0	.1	.0	.0	.0	.0	20	.0	1.0
-20/-22	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.3
-23/-25	.1	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	6	.0	.3
-26/-30	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	5		55		233		647		97		9	1990	114	1876
PCT	.3	1.1	2.8	7.2	11.7	22.4	32.5	15.5	4.9	1.2	.5	100.0	5.7	94.3

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4
1-2	.0	.4	.2	.0	.0	.0	.6	.0	.0	.3	.0	.0	.0	.4
3-4	.0	.2	2.8	.7	.0	.0	3.8	.0	.6	1.3	.1	.0	.0	2.1
5-6	.0	.1	1.6	.5	.0	.0	2.3	.0	.0	1.2	.3	.0	.0	1.5
7	.0	.0	1.1	1.1	.3	.0	2.5	.0	.0	.6	.7	.2	.0	1.5
8-9	.0	.0	.1	.5	.0	.0	.7	.0	.1	.3	.6	.1	.0	1.2
10-11	.0	.0	.3	.8	.3	.0	1.3	.0	.0	.0	.5	.1	.0	.7
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.6	.1	.0	.9
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.1	.7	.3	.0	1.1
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	6.2	4.4	.3	.0	12.3	.0	.8	4.0	3.6	1.4	.0	9.9

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.3	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.4	.1	.0	.0	.0	.5	.0	.8	.3	.0	.0	.0	1.2
3-4	.0	.1	1.2	.1	.0	.0	1.5	.0	.6	1.7	.1	.0	.0	2.4
5-6	.0	.0	.8	.4	.1	.0	1.3	.0	.0	1.1	.1	.0	.0	1.2
7	.0	.0	.7	.8	.1	.0	1.6	.0	.0	.5	.3	.0	.0	.8
8-9	.0	.0	.0	.3	.1	.0	.4	.0	.0	.3	.1	.1	.0	.6
10-11	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.1	.0	.3
12	.0	.0	.0	.1	.6	.0	.7	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.7	2.8	1.9	1.7	.0	7.2	.0	1.6	3.9	1.0	.3	.0	6.8

PERIOD: (OVER-ALL) 1963-1971

JANUARY

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	.3	.0	.0	.0	1.1	.0	.9	.7	.0	.0	.0	1.6	.0
3-4	.0	.4	1.3	.0	.0	.0	1.7	.0	.3	2.0	.0	.0	.0	2.3	.0
5-6	.0	.1	.6	.9	.1	.0	1.8	.0	.3	.7	.6	.0	.0	1.7	.0
7	.0	.0	.5	.3	.0	.0	1.0	.0	.0	1.8	.4	.0	.0	2.2	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.2	.0	.0	.9	.0
10-11	.0	.1	.1	.3	.0	.0	.6	.0	.0	.3	.7	.0	.0	1.1	.0
12	.0	.0	.0	.3	.1	.0	.4	.0	.0	.0	.3	.2	.0	.5	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.1	.5	.0
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.4	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.6	2.8	1.9	.4	.0	7.0	.0	1.5	6.4	2.6	.4	.6	11.6	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.4	.0
1-2	.0	.8	.5	.0	.0	.0	1.3	.0	1.0	.5	.0	.0	.0	1.5	.0
3-4	.1	.6	2.1	.7	.0	.0	3.6	.0	.4	.6	.0	.0	.0	1.1	.0
5-6	.0	.3	2.8	1.2	.0	.0	4.3	.0	.3	2.3	1.1	.0	.0	3.7	.0
7	.0	.0	1.5	2.2	.6	.0	4.2	.0	.0	1.1	1.7	.2	.0	3.0	.0
8-9	.0	.0	1.0	1.9	.9	.0	3.8	.0	.0	.7	1.5	.3	.0	2.6	.0
10-11	.0	.0	.4	1.4	.7	.0	2.5	.0	.0	.0	1.0	.4	.0	1.5	.0
12	.0	.0	.0	2.0	.5	.0	2.5	.0	.0	.3	1.0	.3	.0	1.6	.0
13-16	.0	.0	.0	1.6	.9	.0	2.5	.0	.0	.1	.7	.7	.0	1.6	.0
17-19	.0	.0	.0	.4	.3	.0	.7	.0	.0	.0	.0	.1	.0	.1	.0
20-22	.0	.0	.0	.1	.3	.0	.4	.0	.0	.0	.0	.0	.1	.2	.0
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.1	.2	.3	.0	.0	.0	.0	.2	.2	.4	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.9	8.5	11.5	4.5	.2	26.7	.3	1.8	5.8	7.2	2.4	.3	17.8	99.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.0	1.3	.0	.0	.0	.0	2.4	
1-2	.1	5.2	3.0	.0	.0	.0	8.4	
3-4	.1	3.3	13.2	1.9	.0	.0	18.5	
5-6	.0	1.2	11.2	5.1	.3	.0	17.8	
7	.0	.0	7.8	7.6	1.3	.0	16.7	
8-9	.0	.1	3.3	5.2	1.6	.0	10.3	
10-11	.0	.1	1.2	4.9	1.9	.0	8.2	
12	.0	.0	.4	4.6	1.9	.0	7.0	
13-16	.0	.0	.3	3.9	2.1	.1	6.4	
17-19	.0	.0	.0	.6	1.2	.0	1.8	
20-22	.0	.0	.0	.1	.6	.4	1.2	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.4	.6	1.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.3	11.4	40.4	34.1	11.7	1.2	100.0	669

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.1	4.6	8.1	4.9	3.4	.7	1.0	.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	374	5
6-7	.1	.2	4.1	6.9	7.9	5.0	3.7	1.6	2.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	512	7
8-9	.1	.0	1.0	1.7	4.1	5.2	3.0	2.9	3.2	.8	.9	.1	.1	.0	.0	.0	.0	.0	.0	331	10
10-11	.0	.0	.1	.4	.7	1.1	1.2	.9	1.7	.6	.9	.2	.2	.0	.0	.0	.0	.0	.0	121	12
12-13	.0	.0	.3	.1	.3	.1	.2	.2	.4	.4	.6	.1	.2	.0	.0	.0	.0	.0	.0	47	14
>13	.0	.0	.0	.1	.1	.1	.1	.1	.3	.2	.4	.0	.4	.0	.0	.0	.0	.0	.0	28	17
INDBT	.6	1.0	2.8	1.8	2.1	1.2	.8	.7	.5	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	189	6
TOTAL	14	93	262	254	297	183	162	109	137	37	32	7	14	1	0	0	0	0	0	1602	8
PCT	.9	5.8	16.4	15.9	18.5	11.4	10.1	6.8	8.6	2.3	2.0	.4	.9	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1877-1971

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	
N	2.9	.6	.2	.5	10.1	.8	.0	14.4	4.1	.0	4.2	.0	.4	.0	76.8
NE	6.2	.2	3.8	.2	8.3	1.5	.0	19.2	7.4	.0	7.5	.7	.0	.0	65.1
E	16.1	1.9	5.9	.5	11.1	.5	.0	32.5	4.6	.0	10.4	.0	.0	.0	52.5
SE	13.2	2.8	3.4	1.2	9.8	.2	.0	28.5	5.7	.0	17.3	1.2	.0	.0	47.0
S	13.0	1.7	3.6	.0	10.4	.0	.0	27.4	4.3	.0	14.6	.0	1.4	.0	52.9
SW	4.0	1.0	3.8	.0	14.5	.5	.2	22.6	6.2	.0	7.0	.5	.5	.0	63.2
W	2.1	1.1	.2	.1	23.7	.0	.3	26.5	8.4	.0	1.9	.0	.0	.0	63.2
NW	.5	1.2	.0	.4	16.4	.0	.0	17.3	4.8	.0	1.7	.0	1.4	.0	74.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	12.5	.0	.0	12.5	.0	.0	50.0	.0	.0	.0	37.5
TOT PCT	5.2	1.2	1.8	.3	15.5	.3	.1	23.1	6.1	.0	6.2	.2	.5	.0	64.0
TOT OBS: 1957															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	
0000	6.9	2.1	1.6	.3	14.9	.2	.2	24.6	5.5	.0	5.2	.3	.3	.0	64.0
0600	4.9	1.2	1.6	.2	17.2	.4	.0	24.1	6.7	.0	4.9	.2	.4	.0	63.7
1200	3.6	.7	2.0	.7	12.2	.0	.0	18.6	5.9	.0	8.1	.5	.9	.0	66.1
1800	4.9	.7	2.0	.0	16.9	.7	.2	23.8	6.2	.0	7.3	.0	.2	.0	62.4
TOT PCT	5.2	1.2	1.8	.3	15.3	.3	.1	22.9	6.1	.0	6.3	.3	.5	.0	64.0
TOT OBS: 1976															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.2	2.0	9.5	2.3	.4	.1	10.5	17.5	10.8	8.5	11.5	10.9	12.3	8.0	9.9	6.3	
NE	.1	1.4	3.6	2.0	.4	.2	7.6	18.9	7.7	7.5	7.0	9.2	8.5	8.5	7.5	5.1	
E	.1	1.3	3.3	2.7	.5	.0	7.8	19.5	7.5	7.5	8.6	9.6	5.9	6.1	8.7	10.2	
SE	.1	1.6	3.0	2.5	.7	.1	7.9	20.1	7.9	9.0	6.8	8.8	9.3	9.8	6.7	7.2	
S	.2	1.7	3.0	1.9	.6	.1	7.4	18.6	7.0	6.7	9.6	3.7	6.3	7.0	7.6	9.2	
SW	.1	1.8	4.4	3.2	1.1	.1	10.7	20.4	10.2	11.2	11.8	11.9	12.1	13.5	8.3	7.2	
W	.2	2.8	9.3	10.1	4.2	.9	27.7	23.8	29.3	26.7	23.7	22.3	27.2	25.2	30.9	35.9	
NW	.1	2.8	8.0	6.8	1.9	.4	19.9	21.6	19.4	23.0	19.9	22.7	17.8	22.0	20.1	18.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5						.5	.0	.2	.0	1.2	.8	.8	.0	.3	.0	
TOT OBS	31	337	877	687	215	40	2187	20.8	474	161	429	122	391	115	367	128	
TOT PCT	1.4	15.4	40.1	31.4	9.8	1.8	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.2	4.0	4.5	.9	.1	10.5	17.5	10.2	11.4	11.3	9.0		
NE	.6	2.9	2.8	1.1	.2	7.6	18.9	7.6	7.5	8.5	6.9		
E	.6	2.4	3.3	1.4	.1	7.8	19.5	7.5	8.8	5.9	9.1		
SE	.4	2.7	2.9	1.9	.1	7.9	20.1	8.1	7.3	9.4	6.9		
S	1.0	2.4	2.3	1.5	.1	7.4	18.6	6.9	8.3	6.4	8.0		
SW	.7	3.6	3.9	2.3	.3	10.7	20.4	10.5	11.8	12.4	8.0		
W	.9	7.1	10.2	7.2	2.2	27.7	23.8	28.7	23.4	26.7	32.2		
NW	.7	5.6	8.5	4.2	.8	19.9	21.6	20.3	20.5	18.7	19.8		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.5					.5	.0	.2	1.1	.6	.2		
TOT OBS	139	674	838	449	87	2187	20.8	635	551	506	495		
TOT PCT	6.4	30.8	38.3	20.5	4.0	100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1952-1971
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00603	.2	.6	18.0	40.3	31.3	8.0	1.6	20.1	100.0	635	
06609	1.1	1.1	14.0	39.7	32.1	10.5	1.5	20.9	100.0	551	
12615	.6	1.0	14.0	41.7	30.6	10.3	1.8	21.0	100.0	506	
18221	.2	1.0	15.2	38.6	31.5	10.9	2.6	21.6	100.0	495	
TOT	11	20	337	877	687	215	40	20.8		2187	
PCT	.5	.9	15.4	40.1	31.4	9.8	1.8	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	.7	2.6	5.5		6.3
NE	.7	.5	1.9	4.7		6.6
E	.4	.3	1.0	6.8		7.3
SE	.3	.5	.8	6.2		7.3
S	.9	.3	1.3	4.7		6.6
SW	1.0	.6	2.6	6.0		6.5
W	3.3	3.1	9.7	12.5		6.1
NW	3.1	2.0	6.2	8.1		5.9
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.1	.2		6.0
TOT OBS	186	134	438	916	1674	6.4
TOT PCT	11.1	8.0	26.2	54.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIRECTION												
AND FREQUENCY OF WIND												
000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL	
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS	
.3	.0	.1	.9	3.1	2.5	.3	.3	.1	.0	2.6		
.6	.0	.2	1.0	2.4	1.1	.3	.1	.2	.2	1.7		
1.4	.0	.3	1.8	2.0	.8	.4	.0	.1	.3	1.3		
1.0	.1	.3	1.3	2.0	.9	.2	.3	.0	.3	1.3		
1.0	.1	.3	.5	1.6	1.1	.3	.1	.1	.0	2.2		
.8	.1	.3	1.1	2.9	2.0	.4	.0	.2	.1	2.3		
1.2	.1	.2	3.5	8.5	5.8	.8	.2	.2	.1	7.9		
.7	.0	.6	1.3	4.9	4.9	.7	.1	.0	.3	5.8		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.2	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1		
116	8	40	190	459	323	59	17	17	22	423		1674
6.9	.5	2.4	11.4	27.4	19.3	3.5	1.0	1.0	1.3	25.3		100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.3	2.2	2.3	2.3	2.3	2.3	2.3	2.3
= OR >5000	1.9	3.1	3.2	3.2	3.3	3.3	3.3	3.3
= OR >3500	3.7	6.3	6.8	6.9	6.9	7.0	7.0	7.0
= OR >2000	12.3	23.9	25.2	25.5	25.7	25.8	26.0	26.0
= OR >1000	23.2	46.5	51.1	52.1	52.9	52.9	53.4	53.4
= OR >600	27.4	54.4	61.1	62.9	64.0	64.2	64.7	64.7
= OR >300	27.8	55.9	63.0	65.1	66.4	66.7	67.1	67.1
= OR >150	27.9	56.2	63.4	65.5	66.9	67.1	67.7	67.7
= OR >0	28.0	56.5	64.5	67.4	69.9	71.1	74.3	74.4
TOTAL	469	945	1080	1128	1170	1191	1243	1245

TOTAL NUMBER OF OBS: 1674

PCT FREQ NH <5/8: 25.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	5.9	4.0	6.3	4.6	3.8	6.1	9.8	10.4	42.9	1784

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.3	.4	.3	.3	.7	.4	.5	.0	.1	2.6	
	NO PCP	.1	.2	.4	.9	.6	.4	.1	.1	.0	.2	2.9	
	TOT %	.3	.4	.8	1.3	.9	.5	.5	.5	.0	.3	5.4	
1/2<1	PCP	.1	.2	.4	.3	.2	.7	.5	.1	.0	.0	1.9	
	NO PCP	.1	.1	.1	.2	.1	.1	.1	.2	.0	.0	.8	
	TOT %	.2	.2	.5	.4	.3	.7	.6	.2	.0	.0	2.7	
1<2	PCP	.3	.1	.4	.4	.3	.4	.5	.1	.0	.0	2.4	
	NO PCP	.1	.1	.1	.1	.1	.2	.1	.1	.0	.0	.8	
	TOT %	.3	.1	.5	.5	.4	.6	.5	.2	.0	.0	3.2	
2<5	PCP	.2	.5	.6	.7	.6	.6	1.4	.6	.0	.0	5.1	
	NO PCP	.8	.7	.2	.4	.6	.5	1.2	.6	.0	.0	5.0	
	TOT %	.9	1.1	.9	1.1	1.2	1.1	2.7	1.2	.0	.0	10.1	
5<10	PCP	.4	.4	.7	.6	.5	1.0	3.3	1.6	.0	.0	8.6	
	NO PCP	2.5	1.6	1.6	1.9	2.0	3.4	8.2	5.3	.0	.0	26.5	
	TOT %	3.0	2.0	2.4	2.5	2.6	4.4	11.4	6.9	.0	.0	35.1	
10+	PCP	.3	.1	.1	.1	.1	.1	1.2	.5	.0	.0	2.6	
	NO PCP	5.6	3.7	2.9	2.3	1.9	3.7	10.6	10.0	.0	.2	40.9	
	TOT %	5.9	3.9	3.1	2.4	1.9	3.8	11.8	10.6	.0	.2	43.4	
TOT OBS													1993
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.1	.1	.1	.1	.0	.1	.1	.0	.0	.4	
	11-21	.1	.2	.3	.6	.3	.2	.2	.2	.0	.0	2.1	
	22+	.1	.2	.5	.5	.5	.3	.2	.2	.0	.0	2.5	
	TOT %	.3	.4	.8	1.2	.9	.5	.5	.5	.0	.2	5.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.1	.1	.1	.1	.1	.0	.0	.3	
	11-21	.1	.1	.1	.2	.1	.2	.1	.1	.0	.0	1.1	
	22+	.1	.1	.4	.2	.1	.1	.4	.1	.0	.0	1.3	
	TOT %	.2	.2	.5	.4	.3	.2	.6	.2	.0	.0	2.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.1	.1	.1	.0	.1	.0	.0	.3	
	11-21	.3	.1	.1	.1	.1	.3	.0	.2	.0	.0	1.2	
	22+	.1	.1	.3	.4	.3	.2	.5	.2	.0	.0	2.0	
	TOT %	.3	.2	.5	.5	.4	.6	.5	.4	.0	.0	3.5	
2<5	0-3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	
	4-10	.3	.2	.1	.2	.2	.1	.1	.1	.0	.0	1.3	
	11-21	.5	.4	.3	.5	.4	.3	1.0	.4	.0	.0	3.8	
	22+	.3	.5	.4	.5	.5	.6	1.7	.6	.0	.0	5.1	
	TOT %	1.0	1.1	.9	1.1	1.2	1.1	2.8	1.2	.0	.0	10.3	
5<10	0-3	.0	.1	.1	.1	.1	.1	.1	.0	.0	.0	.2	
	4-10	.4	.2	.2	.3	.4	.4	.6	.7	.0	.0	3.1	
	11-21	1.6	.9	1.0	.8	1.4	1.7	3.3	2.6	.0	.0	13.3	
	22+	.9	.9	1.1	1.2	.7	2.1	7.2	3.7	.0	.0	17.7	
	TOT %	2.9	2.0	2.3	2.3	2.5	4.3	11.2	6.9	.0	.0	34.4	
10+	0-3	.1	.1	.1	.1	.1	.0	.1	.1	.0	.2	.6	
	4-10	1.4	.9	.8	.9	.6	1.1	1.9	1.8	.0	.0	9.4	
	11-21	3.0	2.0	1.6	1.0	.8	1.7	4.3	4.3	.0	.0	19.1	
	22+	1.5	1.0	.6	.6	.4	1.0	5.4	4.3	.0	.0	14.9	
	TOT %	6.0	3.9	3.1	2.5	1.9	3.8	12.0	10.6	.0	.2	44.0	
TOT OBS													2079
TOT PCT													100.0

FEBRUARY

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1877-1971AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	7.4	.6	1.4	9.2	23.9	18.2	3.7	.4	1.0	2.0	67.9	32.1	489
06009	7.2	.2	3.8	11.2	28.2	19.8	2.6	1.4	.7	.5	73.7	24.3	419
12015	6.8	1.3	2.6	11.0	29.9	21.0	3.7	1.0	1.6	.8	79.8	20.2	381
18021	5.8	.0	1.9	13.6	27.7	17.2	4.6	1.2	.7	1.7	74.5	25.5	412
TOT	116	9	41	190	463	323	62	17	17	22	1260	441	1701
PCT	6.8	.5	2.4	11.2	27.2	19.0	3.6	1.0	1.0	1.3	74.1	25.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	4.7	2.5	4.3	9.0	36.0	43.5	611
06009	5.3	2.6	3.0	10.3	37.1	41.7	933
12015	5.9	2.9	3.8	9.9	31.9	45.7	477
18021	5.0	2.7	2.7	12.4	31.2	45.9	477
TOT	109	56	73	216	719	925	2098
PCT	5.2	2.7	3.4	10.3	34.3	44.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	7.5	11.7	26.3	42.8	30.9	479
06009	7.3	12.9	29.9	46.8	23.3	412
12015	6.4	11.7	27.7	53.3	18.9	375
18021	5.4	9.8	31.9	44.4	23.8	408
TOT	112	193	483	779	412	1674
PCT	6.7	11.5	28.9	46.5	24.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.1	.1	.2	.7	13	1.1
40/44	.0	.0	.0	.1	.1	.6	1.0	3.2	60	4.9
35/39	.1	.0	.0	.1	.6	2.4	5.0	11.9	249	20.1
30/34	.0	.0	.2	.3	2.2	6.7	12.1	15.9	462	37.4
25/29	.0	.1	.0	.2	2.3	3.2	4.7	9.0	240	19.4
20/24	.0	.0	.1	.2	.8	2.8	3.6	3.8	140	11.3
15/19	.0	.0	.0	.0	.6	1.1	1.5	1.7	61	4.9
10/14	.0	.0	.0	.0	.3	.1	.2	.2	9	.7
5/9	.0	.0	.0	.0	.0	.0	.1	.1	2	.2
TOTAL	1	1	4	11	87	210	349	573	1236	100.0
PCT	.1	.1	.3	.9	7.0	17.0	28.2	46.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
45/49	.0	.1	.1	.2	.6	.1	.0	.0	.0	.0
40/44	.1	.2	.7	1.2	1.5	.5	.4	.2	.0	.1
35/39	1.0	1.7	3.5	4.0	2.5	2.9	3.1	1.1	.0	.2
30/34	3.5	4.4	3.8	3.4	2.6	4.7	8.3	6.5	.0	.2
25/29	2.4	1.1	.8	.9	.6	1.6	7.3	4.7	.0	.0
20/24	1.5	.5	.3	.2	.0	.5	4.3	4.1	.0	.0
15/19	.7	.*	.0	.0	.0	.0	1.9	2.2	.0	.0
10/14	.0	.0	.0	.0	.0	.0	.3	.4	.0	.0
5/9	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0
TOTAL	9.2	8.0	9.2	9.9	7.9	10.3	25.7	19.3	.0	.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	48	43	39	30	18	14	8	29.8	632
06009	52	45	40	31	18	13	4	30.1	349
12015	48	45	40	31	18	13	10	30.6	499
18021	47	44	40	32	20	14	9	30.8	495
TOT	52	44	40	31	18	13	4	30.3	2175

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.3	6.9	17.6	30.1	45.1	87	379
06009	.3	.9	7.1	14.6	29.5	47.5	87	322
12015	.0	2.1	4.6	18.9	22.9	51.4	88	280
18021	.0	2.2	9.2	16.6	29.9	42.1	85	271
TOT	1	16	87	211	353	580	87	1248

FEBRUARY

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1877-1971

TABLE 17

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	9	.2	.3
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.9	.1	20	.3	.9
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.4	.9	.1	46	.9	1.9
6	.0	.0	.0	.0	.0	.0	.0	.5	1.4	.3	.1	.1	38	.7	1.6
5	.0	.0	.0	.0	.0	.0	.0	1.2	1.7	.3	.0	.0	53	.6	2.6
4	.0	.0	.0	.0	.0	.0	.1	2.3	1.6	.1	.0	.0	68	.6	3.5
3	.0	.0	.0	.0	.0	.0	.5	2.8	1.5	.0	.0	.0	80	.6	4.2
2	.0	.0	.0	.0	.0	.0	.0	1.6	4.4	.5	.1	.0	110	.7	6.0
1	.0	.0	.0	.0	.0	.0	.0	1.9	3.7	.8	.1	.0	106	.5	5.9
0	.0	.0	.0	.0	.0	.2	3.2	3.5	.5	.0	.0	.0	122	.3	7.0
-1	.0	.0	.0	.0	.0	.0	.4	3.5	2.9	.2	.1	.0	117	.6	6.4
-2	.0	.0	.0	.0	.1	1.4	4.1	1.4	.3	.0	.0	.0	120	.2	7.0
-3	.0	.0	.0	.0	.0	.0	1.2	3.8	.6	.2	.1	.0	99	.3	5.7
-4	.0	.0	.0	.0	.0	.1	2.8	2.2	.5	.0	.0	.0	92	.2	5.4
-5	.0	.0	.0	.0	.0	.4	3.0	1.7	.5	.1	.0	.0	95	.0	5.7
-6	.0	.0	.0	.0	.0	.7	2.0	.8	.1	.1	.0	.0	62	.0	3.7
-7/-8	.0	.0	.0	.0	.3	2.3	4.0	1.4	.5	.1	.0	.0	141	.0	8.5
-9/-10	.0	.0	.0	.0	.7	2.6	1.3	.2	.0	.0	.0	.0	81	.0	4.9
-11/-13	.0	.0	.0	.1	2.1	2.5	.7	.2	.1	.0	.0	.0	97	.1	5.7
-14/-16	.0	.0	.0	1.0	1.6	.5	.4	.1	.1	.0	.0	.0	60	.0	3.6
-17/-19	.0	.0	.1	.6	.6	.2	.0	.1	.0	.0	.0	.0	26	.0	1.6
-20/-22	.0	.1	.2	.4	.1	.0	.1	.0	.0	.0	.0	.0	13	.0	.8
-23/-25	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	5	.0	.3
-26/-30	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	7	90	287	421	52	1662	100.0	6.7	93.3					
PCT	.1	.1	.4	2.2	5.4	9.4	17.3	25.6	25.3	10.5	3.1	.5			

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.7	.0	.0	.0	.0	1.4	.0	.7	.5	.0	.0	.0	1.2
3-4	.0	.2	2.0	.5	.0	.0	2.7	.0	.6	2.7	.4	.0	.0	3.7
5-6	.0	.0	2.2	.5	.0	.0	2.7	.0	.2	1.0	.3	.0	.0	1.5
7	.0	.0	1.7	.4	.0	.0	2.2	.0	.0	.8	.5	.0	.0	1.3
8-9	.0	.0	.2	.5	.1	.0	.8	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.2	.2	.0	.0	.3
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.1	.0	.1	.0	.2	.0	.0	.0	.0	.2	.2	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	7.1	2.4	.2	.0	11.2	.1	1.7	5.6	1.6	.2	.3	9.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	.2
1-2	.1	.5	.2	.0	.0	.0	.8	.0	.5	.1	.0	.0	.0	.5
3-4	.0	.7	1.7	.3	.0	.0	2.7	.0	1.0	1.6	.4	.0	.0	3.0
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.2	.4	.5	.2	.0	1.2
7	.0	.0	.5	.5	.1	.0	1.0	.0	.2	.4	.7	.0	.0	1.3
8-9	.0	.0	.0	.3	.1	.0	.4	.0	.0	.2	.4	.2	.0	.7
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.3	.0	.6
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.2	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.5	2.9	1.7	.2	.0	6.6	.0	2.0	2.7	2.5	1.0	.0	8.2

PERIOD: (OVER-ALL) 1963-1971

FEBRUARY

AREA 0003 PLACENTIA BAY SOUTH
46.0N 34.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2
1-2	.0	.7	.7	.0	.0	.0	1.4	.0	.0	.4	.7	.0	.0	.0	.0	1.2
3-4	.0	.2	.9	.1	.0	.0	1.2	.0	.0	.9	1.5	.4	.0	.0	.0	2.1
5-6	.0	.0	1.2	.5	.1	.0	1.7	.0	.0	.5	1.2	1.2	.0	.0	.0	3.0
7	.0	.2	.2	.3	.0	.0	.7	.0	.0	.2	.7	.7	.3	.0	.0	1.9
8-9	.2	.0	.2	.0	.2	.0	.5	.0	.0	.0	.1	.6	.2	.0	.0	.9
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.2	.3	*	.0	.0	.6
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	*	.0	.0	.2
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.7	.7	.0	.0	1.4
17-19	.0	.0	.2	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.3	.0	.4	.0	.0	.0	.0	*	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.4	.4
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.1	3.4	1.2	1.0	.0	6.8	.0	.0	2.2	4.5	4.1	1.6	.2	12.6	

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.2	.2	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0	.0	.2	
1-2	.0	1.6	1.0	.0	.0	.0	2.6	.0	.0	1.5	.7	.0	.0	.0	.0	2.3	
3-4	.0	.9	2.3	1.2	.0	.0	4.4	.0	.0	.3	2.7	.8	.0	.0	.0	3.8	
5-6	.0	.2	2.6	1.3	.2	.0	4.2	.0	.0	.0	2.6	1.5	.0	.0	.0	4.1	
7	.0	.0	.7	1.0	.1	.2	2.0	.0	.0	.0	1.4	1.4	*	.0	.0	2.8	
8-9	.0	.0	1.2	1.3	.9	.0	3.4	.0	.0	.2	1.1	.9	.3	.0	.0	2.5	
10-11	.0	.0	.5	1.2	.0	.0	1.7	.0	.0	.0	.2	.8	.2	.0	.0	1.2	
12	.0	.0	.0	.2	.1	.0	.4	.0	.0	.0	.0	.2	.3	.0	.0	.6	
13-16	.0	.0	.0	1.2	.6	.0	1.7	.0	.0	.0	.0	.5	.7	.0	.0	1.2	
17-19	.0	.0	.1	.2	.7	.0	1.0	.0	.0	.0	*	.0	.1	.2	.3	.3	
20-22	.0	.0	.0	.3	1.0	.0	1.2	.0	.0	.0	.0	*	.0	.0	.0	*	
23-25	.0	.0	.0	.2	.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.2	.3	1.1	1.5	.0	.0	.0	.0	.2	.2	.0	.0	.4	
33-40	.0	.0	.0	.0	.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.9	8.5	8.2	4.5	1.4	23.5	.0	.0	2.2	8.8	6.3	1.9	.2	19.3	99.7	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.7	1.8	.2	.0	.0	.0	2.6	
1-2	.2	6.6	4.6	.0	.0	.0	11.4	
3-4	.0	4.8	15.4	4.0	.0	.0	24.2	
5-6	.0	1.0	11.8	5.8	.5	.0	19.0	
7	.0	.7	6.3	5.5	.7	.2	13.2	
8-9	.2	.2	3.3	4.0	2.0	.0	9.6	
10-11	.0	.0	1.2	3.3	.5	.0	5.0	
12	.0	.0	.2	1.3	.8	.0	2.3	
13-16	.0	.0	.2	2.6	.2	.5	5.6	
17-19	.0	.0	.3	.9	.8	.2	1.7	
20-22	.0	.0	.0	.5	1.3	.2	2.0	
23-25	.0	.0	.0	.2	.5	.0	.7	
26-32	.0	.0	.0	.3	.7	1.3	2.3	
33-40	.0	.0	.0	.0	.2	.2	.3	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	13.1	43.4	27.8	10.6	2.2	100.0	604

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	.1	3.4	7.9	5.9	3.3	1.2	.8	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	335	5
6-7	.0	.6	3.9	7.1	8.3	4.9	3.3	2.1	2.2	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	477	7
8-9	.0	.3	1.0	1.5	2.9	2.8	3.0	2.5	3.2	.6	.9	.1	.1	.0	.0	.0	.0	.0	.0	272	10
10-11	.0	.0	.2	.8	.8	1.2	.8	.8	1.6	1.4	.7	.1	.5	.0	.0	.0	.0	.0	.0	128	13
12-13	.0	.0	.0	.1	.3	.0	.5	.3	.5	.2	.1	.1	.3	.1	.0	.0	.0	.0	.0	37	15
>13	.0	.0	.0	.1	.2	.1	.3	.1	.3	.1	.3	.1	.2	.1	.0	.0	.0	.0	.0	27	15
INDET	.6	1.7	1.9	1.2	2.1	1.0	1.1	.9	.8	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	171	7
TOTAL	11	87	216	241	259	162	142	99	128	40	33	8	19	2	0	0	0	0	0	1447	8
PCT	.8	6.0	14.9	16.7	17.9	11.2	9.8	6.8	8.8	2.8	2.3	.6	1.3	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1877-1971

MARCH

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG
N	1.8	1.2	3.2	.0	9.2	.0	.0	14.7	4.7	.0	6.5	.8	.6	.5	72.3
NF	3.7	.5	1.4	.4	12.4	.0	.0	17.5	2.4	.0	13.6	.8	1.1	.2	64.3
E	9.9	1.6	3.2	1.1	12.9	.5	1.1	28.9	3.8	.0	13.9	.0	.9	.3	92.2
SE	10.1	1.1	7.8	1.8	11.2	.4	.7	27.7	2.2	.0	15.2	1.4	2.9	.7	49.9
S	8.5	1.4	2.6	.3	9.3	1.0	.0	21.1	1.4	.0	27.2	1.4	.5	.0	48.4
SW	7.7	.2	2.2	.5	13.5	.1	.0	24.2	2.9	.0	13.0	.0	.9	.5	58.5
W	1.2	.2	.7	.5	14.8	.2	.5	17.8	5.0	.0	4.8	.0	.4	.0	72.0
NW	.5	.5	.3	.0	12.9	.0	.0	13.8	4.1	.0	4.0	.8	.5	.0	76.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	3.7	.0	7.4	.0	.0	11.1	.0	.0	33.3	.0	7.4	.0	48.1
TOT PCT	4.3	.7	2.2	.5	12.4	.2	.3	19.6	3.6	.0	10.8	.5	.9	.2	64.3
TOT OBS:	1844														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG
0000	5.5	.8	2.3	.4	12.4	.0	.0	19.8	2.1	.0	8.8	1.0	1.0	.0	67.4
0600	5.9	1.4	2.6	.5	16.1	.2	.2	25.4	5.0	.0	9.5	.0	.5	.5	59.2
1200	3.9	.6	2.2	.9	12.1	.2	.6	19.7	3.2	.0	13.4	.0	1.1	.0	62.6
1800	2.0	.2	1.6	.2	8.9	.4	.2	13.5	4.4	.0	12.0	1.1	1.1	.4	67.4
TOT PCT	4.4	.8	2.1	.5	12.3	.2	.3	19.5	3.6	.0	10.9	.5	.9	.2	64.4
TOT OBS:	1861														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	2.6	6.6	2.1	.4	.2		12.1	17.3		13.5	15.3	12.8	13.1	13.0	9.7	9.9	6.3
NF	.1	2.6	5.7	3.9	1.0	.2		13.0	19.7		15.2	8.9	12.6	11.4	14.3	13.2	13.4	8.0
E	.1	1.8	3.6	3.5	1.0	.1		10.0	20.6		9.8	10.0	9.8	10.3	11.3	7.6	10.3	9.2
SE	.1	1.3	3.6	2.1	.5	.0		7.5	18.9		5.7	8.8	8.4	9.1	7.8	10.5	8.0	8.8
S	.2	2.4	3.2	1.7	.3	.0		7.8	16.3		6.6	7.5	8.8	8.4	6.4	8.1	8.8	9.7
SW	.3	2.6	4.8	2.2	.9	.3		11.1	18.5		10.6	10.2	10.6	7.6	9.8	14.7	10.5	17.9
W	.1	3.6	8.4	6.3	3.4	.3		22.0	21.7		22.7	23.8	20.7	21.0	18.7	24.6	24.0	23.5
NW	.1	3.2	6.5	4.2	1.2	*		13.1	18.7		14.6	15.0	16.2	17.1	16.8	11.6	13.0	16.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0		1.5	.6	2.0	.0	1.9	.0	2.0	.0
TOT OBS	47	398	826	516	170	19	1976		19.1		407	160	342	107	361	129	351	119
TOT PCT	2.4	20.1	41.8	26.1	8.6	1.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	.9	5.7	4.0	1.2	.3			12.1	17.3		14.0	12.9	12.1	9.0	
NE	.9	4.5	5.1	2.2	.3			13.0	19.7		13.4	12.4	14.0	12.0	
E	.5	3.5	3.7	1.9	.4			10.0	20.6		9.8	9.9	10.3	10.1	
SE	.6	2.6	3.1	1.0	.3			7.5	18.9		6.5	7.1	8.5	8.2	
S	1.1	3.6	1.8	1.2	.1			7.8	16.3		6.8	8.7	6.9	9.0	
SW	1.3	4.0	3.8	1.6	.4			11.1	18.5		10.4	10.4	11.1	12.4	
W	.9	7.4	7.7	4.9	1.2			22.0	21.7		23.0	20.8	20.3	23.9	
NW	1.2	5.5	6.1	2.0	.3			13.1	18.7		14.7	16.4	15.4	13.9	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	1.4							1.4	.0		1.2	1.6	1.4	1.3	
TOT OBS	173	725	697	317	64	1976			19.1		367	449	490	470	
TOT PCT	8.8	36.7	35.3	16.0	3.2			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1952-1971
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.2	.4	20.5	44.4	26.6	6.3	.5	18.3	100.0	567
06009	1.6	.9	19.2	38.8	29.0	10.0	.7	19.5	100.0	449
12015	1.4	1.2	21.6	39.4	24.3	10.8	1.2	19.5	100.0	490
18021	1.5	1.5	19.1	44.0	24.7	7.7	1.5	19.0	100.0	470
TOT	28	19	398	826	516	170	19	19.1		1976
PCT	1.4	1.0	20.1	41.8	26.1	8.6	1.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.2	1.0	2.6	6.6		5.9
NE	1.9	.7	2.1	7.9		6.4
E	.4	.4	1.1	8.2		7.3
SE	.5	.2	.6	6.0		7.1
S	1.4	.4	.6	5.5		6.3
SW	2.1	.8	2.4	5.6		5.9
W	3.5	3.1	6.2	9.5		5.7
NW	4.4	1.7	4.3	4.8		4.8
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.2	.8		5.3
TOT OBS	261	130	313	856	1560	6.0
TOT PCT	16.7	8.3	20.1	54.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

PERCENTAGE OF NH 1970 BY WIND DIRECTION											
000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	499	999	1999	3499	4999	6499	7999			
.9	.1	.5	1.3	2.4	2.3	.4	.1	.0	*	4.3	
1.7	*	.4	1.5	2.1	2.2	.9	*	.1	.4	3.3	
1.7	.2	.4	.9	2.3	1.8	.3	.1	.1	.6	1.5	
1.0	.0	.5	.7	2.2	1.7	.1	.2	*	.1	1.2	
1.3	.9	.3	.8	1.5	.4	.2	.1	.2	.2	2.4	
1.0	.0	.7	.7	2.7	1.7	.3	*	.2	.3	3.3	
1.1	.0	.3	1.8	5.2	4.3	.5	.2	.1	.7	8.5	
.5	*	.3	1.4	2.7	2.9	.3	.1	.0	*	6.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.4	.0	.0	.1	.2	.2	.1	.0	.0	.0	.5	
155	9	52	143	333	267	49	14	11	30	497	1560
9.9	.6	2.3	9.2	21.3	17.1	3.1	.9	.7	1.9	31.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	< NR >10	= NR >5	= NR >2	= NR >1	= NR >1/2	= NR >1/4	= NR >50YD	= NR >0
= NR >6500	1.1	2.0	2.4	2.4	2.6	2.6	2.6	2.6
= NR >5000	1.4	2.9	3.3	3.3	3.5	3.5	3.5	3.5
= NR >4500	3.3	5.7	6.3	6.4	6.5	6.6	6.6	6.6
= NR >2000	10.8	21.2	22.8	23.2	23.4	23.5	23.6	23.6
= NR >1000	17.8	37.2	42.8	44.1	44.8	44.9	45.1	45.1
= NR >600	21.5	44.1	51.2	52.9	53.7	54.1	54.3	54.3
= NR >300	21.9	45.5	53.4	55.4	56.5	57.3	57.6	57.6
= NR >150	21.9	45.7	53.6	55.9	57.1	57.9	58.2	58.2
= NR >0	22.0	45.9	54.4	57.7	60.5	64.0	67.5	67.9
TOTAL	344	718	851	972	946	1001	1056	1062

TOTAL NUMBER OF OBS: 1564

PCT FREQ NH <5/8: 32.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.1	4.3	7.4	4.3	3.9	5.0	7.3	6.9	40.6	9.2	1647

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1877-1971

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.5	.4	.1	.2	.3	.2	.1	.0	.1	2.0	
	NO PCP	.3	.9	.7	.9	1.3	.5	.3	.2	.0	.1	5.5	
	TOT %	.4	1.3	1.1	1.0	1.5	.9	.8	.3	.0	.2	7.5	
1/2<1	PCP	.2	.1	.5	.1	.1	.5	.2	*	.0	.1	1.7	
	NO PCP	.2	.3	.4	.1	.1	.4	.1	.1	.0	.1	1.6	
	TOT %	.3	.4	.9	.2	.2	.9	.3	.1	.0	.1	3.3	
1<2	PCP	.3	.3	.5	.2	.3	.4	.2	.2	.0	.0	2.3	
	NO PCP	.1	.3	.3	.1	.1	.4	.1	.1	.0	.0	1.5	
	TOT %	.4	.6	.7	.3	.4	.8	.4	.2	.0	.0	3.8	
2<5	PCP	.4	.7	.8	1.0	.4	.4	1.0	.4	.0	.0	5.1	
	NO PCP	.4	.7	.8	.6	.5	.5	.7	.3	.0	.2	4.6	
	TOT %	.8	1.3	1.6	1.6	.9	.9	1.7	.7	.0	.2	9.7	
5<10	PCP	.6	.7	.8	.6	.7	.8	2.0	1.4	.0	.0	7.7	
	NO PCP	3.7	3.8	2.5	2.0	2.1	2.7	6.4	4.6	.0	.3	28.1	
	TOT %	4.3	4.5	3.3	2.5	2.8	3.6	8.4	6.0	.0	.3	35.8	
10+	PCP	.1	.1	*	*	*	.1	.3	.1	.0	.0	.9	
	NO PCP	9.3	5.1	2.6	1.9	2.0	4.0	10.4	7.2	.0	.5	39.0	
	TOT %	9.4	5.2	2.7	1.9	2.0	4.1	10.8	7.3	.0	.5	39.9	
TOT OBS													1842
TOT PCT													
		11.7	13.3	10.3	7.5	7.8	11.1	22.3	14.6	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	.4	
	4-10	.1	.3	.2	.0	.6	.2	.2	.2	.0		1.8	
	11-21	.2	.6	.6	.6	.3	.4	.3	.2	.0		3.2	
	22+	.1	.4	.2	.4	.5	.4	.2	.0	.0		2.2	
	TOT %	.4	1.3	1.0	1.0	1.5	1.0	.7	.3	.0	.2	7.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.2	
	4-10	.1	.1	.2	.0	.0	.1	.1	.1	.0		.6	
	11-21	.1	.2	.3	.1	.2	.3	.0	.0	.0		1.1	
	22+	.1	.1	.4	.1	.0	.4	.2	.0	.0		1.2	
	TOT %	.3	.4	.9	.2	.2	.7	.3	.1	.0	.1	3.1	
1<2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	.0	.2	.1	.0	.0	.1	.2	.0	.0		.6	
	11-21	.2	.2	.2	.2	.1	.5	.1	.2	.0		1.7	
	22+	.2	.2	.4	.1	.3	.1	.1	.0	.0		1.5	
	TOT %	.4	.6	.7	.3	.4	.8	.3	.2	.0	.0	3.8	
2<5	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3	.3	
	4-10	.3	.2	.2	.1	.3	.1	.1	.2	.0		1.3	
	11-21	.5	.4	.5	.5	.4	.4	.4	.2	.0		3.3	
	22+	.1	.8	.9	.9	.2	.4	1.1	.3	.0		4.6	
	TOT %	.8	1.3	1.5	1.5	.9	.9	1.6	.7	.0	.3	9.6	
5<10	0-3	.1	.1	.0	.0	.1	.1	.0	.0	.0	.3	.6	
	4-10	.8	.6	.4	.4	.6	.9	.8	1.2	.0		5.7	
	11-21	2.3	1.4	1.2	1.3	1.4	1.3	2.8	2.3	.0		13.9	
	22+	1.1	2.3	1.5	.8	.7	1.2	4.6	2.5	.0		14.7	
	TOT %	4.3	4.3	3.2	2.5	2.7	3.5	8.2	5.9	.0	.3	34.9	
10+	0-3	.0	.1	.1	.1	.0	.1	.1	.1	.0	.5	.9	
	4-10	1.5	1.4	.9	.7	.9	1.2	2.1	1.5	.0		10.1	
	11-21	3.3	2.6	.9	.9	.8	2.1	4.7	3.8	.0		19.0	
	22+	1.1	1.3	.9	.4	.2	.8	3.8	2.5	.0		11.0	
	TOT %	5.9	5.4	2.8	1.9	2.0	4.2	10.6	7.6	.0	.5	41.0	
TOT OBS													1927
TOT PCT													
		12.1	13.2	10.1	7.4	7.8	11.1	21.8	15.0	.0	1.3	100.0	

MARCH

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1877-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	9.1	.2	2.6	8.9	21.0	17.0	2.6	.7	.5	1.9	64.3	35.7	429
0600	10.7	.8	4.5	8.7	18.9	17.2	2.0	1.4	.8	2.3	67.3	32.7	355
1200	10.0	.8	3.3	11.5	23.8	15.6	3.6	1.0	1.2	1.8	72.8	27.2	390
1800	10.0	.5	2.9	7.3	21.5	17.8	4.2	.5	.2	1.7	66.7	33.3	409
TOT	157	9	52	144	338	268	49	14	11	30	1072	511	1583
PCT	9.9	.6	3.3	9.1	21.4	16.9	3.1	.9	.7	1.9	67.7	32.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	5.0	2.9	2.9	10.4	37.6	41.3	559
0600	8.3	3.4	2.5	8.6	35.6	41.7	444
1200	8.8	3.8	4.7	8.8	32.4	39.5	478
1800	8.6	2.4	3.4	10.3	32.8	42.5	464
TOT	147	60	71	186	675	802	1945
PCT	7.6	3.1	3.9	9.6	34.7	41.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	9.0	12.8	28.5	37.1	34.4	421
0600	10.3	17.4	31.3	36.5	32.2	351
1200	9.8	16.0	30.6	37.6	25.8	388
1800	9.9	15.3	30.9	37.6	31.4	404
TOT	152	239	497	582	485	1564
PCT	9.7	15.3	31.8	37.2	31.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.1	.0	.1	.1	.1	4	.4
40/44	.0	.0	.0	.1	.3	.2	.7	1.4	30	2.6
35/39	.0	.1	.1	.2	.9	2.2	6.7	12.5	257	72.7
30/34	.0	.0	.1	.6	1.5	8.8	16.0	22.1	556	49.1
25/29	.0	.0	.0	.7	1.6	3.9	4.9	6.8	202	17.8
20/24	.0	.0	.1	.1	.4	1.9	2.1	1.4	87	9.9
15/19	.0	.0	.1	.1	.2	.2	.5	.3	15	1.3
10/14	.0	.0	.0	.0	.0	.0	.1	.1	2	.2
TOTAL	0	1	4	21	54	195	352	506	1133	100.0
PCT	.0	.1	.4	1.9	4.8	17.2	31.1	44.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
45/49	.2	.6	.0	.1	.1	.0	.0	.0	.0	.0
40/44	.2	.3	.3	.2	.6	.9	.1	.8	.0	.0
35/39	1.9	3.9	2.5	2.2	3.4	3.7	3.2	1.6	.0	.4
30/34	5.3	6.0	7.1	4.9	3.4	5.0	10.9	5.7	.0	.7
25/29	2.5	1.5	.7	1.2	.6	2.0	5.7	3.7	.0	.0
20/24	.8	.3	.3	.2	.3	.1	1.9	2.2	.0	.0
15/19	.3	.2	.1	.0	.0	.0	.2	.6	.0	.0
10/14	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0
TOTAL	11.2	12.2	10.9	8.8	8.2	11.7	22.0	13.9	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	49	40	38	32	23	18	11	31.3	564
0600	47	42	38	32	21	16	11	31.1	450
1200	49	43	39	32	23	16	9	31.9	489
1800	49	43	40	33	24	20	14	32.9	468
TOT	49	42	39	32	23	18	9	31.8	1971

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	3.3	5.5	16.7	33.1	41.3	86	329		
0600	.0	.7	3.6	19.6	29.1	46.9	88	275		
1200	.0	1.5	2.5	17.5	32.0	46.5	88	275		
1800	.0	3.4	7.1	15.3	29.9	44.4	86	268		
TOT	0	26	34	198	357	512	87	1147		

MARCH

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1877-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THP OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA THP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N PDG	NO PDG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	1	.1	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	3	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	.0	7	.1	.4
9/10	.0	.0	.0	.0	.0	.0	.0	.6	.3	.1	.0	15	.4	.6
7/8	.0	.0	.0	.0	.0	.0	.3	1.7	.3	.0	.0	35	1.1	1.3
6	.0	.0	.0	.0	.0	.0	.9	.9	.0	.0	.0	27	.3	1.5
5	.0	.0	.0	.0	.0	.0	1.7	1.5	.1	.0	.0	44	.7	2.5
4	.0	.0	.0	.0	.0	.3	3.0	1.1	.2	.0	.0	88	.9	3.7
3	.0	.0	.0	.0	.0	1.2	5.3	1.3	.2	.0	.0	120	1.5	6.5
2	.0	.0	.0	.0	.0	3.0	6.0	1.1	.1	.0	.0	152	1.3	8.9
1	.0	.0	.0	.0	.1	4.1	5.0	.7	.0	.0	.0	147	1.1	8.7
0	.0	.0	.0	.0	.3	6.8	5.2	.3	.0	.0	.0	188	1.5	11.1
-1	.0	.0	.0	.0	.9	3.9	2.2	.2	.0	.0	.0	106	.5	6.6
-2	.0	.0	.0	.0	.9	5.5	1.1	.1	.0	.0	.0	115	.5	7.2
-3	.0	.0	.0	.1	1.5	3.1	.9	.0	.0	.0	.0	84	.1	5.5
-4	.0	.0	.0	.2	2.8	1.7	1.0	.3	.0	.0	.0	90	.2	5.8
-5	.0	.0	.0	.1	2.6	1.3	.2	.0	.0	.0	.0	64	.0	4.3
-6	.0	.0	.0	.4	1.5	.5	.4	.0	.0	.0	.0	43	.1	2.8
-7/-8	.0	.0	.0	2.3	1.3	.5	.5	.0	.0	.0	.0	70	.1	4.6
-9/-10	.0	.0	.3	1.4	.4	.3	.1	.1	.0	.0	.0	39	.1	2.5
-11/-13	.0	.0	.9	.9	.3	.5	.2	.0	.0	.0	.0	41	.1	2.7
-14/-16	.0	.5	.1	.1	.2	.2	.1	.0	.0	.0	.0	18	.0	1.2
-17/-19	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	5	.0	.3
-20/-22	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-23/-25	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	.3	.8	2.0	8.3	19.3	49.1	51.1	19.1	1.5	.2	.1	1488	16.0	132.8
PCT	.2	.5	1.3	5.6	13.0	33.0	34.3	10.1	1.5	.2	.1	100.0	10.8	89.2

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.9	.4	.0	.0	.0	1.3	.0	1.2	.4	.0	.0	.0	1.6
3-4	.0	.5	1.7	.1	.0	.0	2.4	.0	.2	1.8	.0	.0	.0	2.1
5-6	.0	.3	1.5	.3	.0	.0	2.1	.0	.7	2.2	1.4	.0	.0	4.3
7	.0	.0	.8	.5	.0	.0	1.3	.0	.0	1.5	1.7	.6	.0	3.9
8-9	.0	.0	.1	.3	.0	.0	.4	.0	.2	.0	.6	.1	.0	1.1
10-11	.0	.0	.3	.2	.0	.0	.5	.0	.0	.2	.5	.0	.2	.9
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.5	.2	.0	.7
13-16	.0	.0	.0	.3	.4	.0	.8	.0	.0	.0	.7	.2	.0	1.1
17-19	.0	.0	.0	.0	.0	.3	.3	.0	.2	.0	.2	.0	.1	.3
20-22	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.2	.2	.4
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	5.0	2.1	.5	.5	10.4	.0	3.1	6.3	5.6	1.4	.5	16.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.3	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.7	.3	.0	.0	.0	1.1	.0	.8	.6	.0	.0	.0	1.4
3-4	.0	.7	.7	.2	.0	.0	1.6	.0	.4	1.3	.0	.0	.0	1.8
5-6	.0	.1	.9	.8	.0	.0	1.9	.0	.0	.8	.2	.0	.0	1.0
7	.0	.1	.9	.7	.1	.0	1.9	.0	.0	.3	.6	.2	.0	1.2
8-9	.0	.0	.2	1.4	.5	.0	2.1	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.2	.7	.0	.0	.9	.0	.0	.2	.2	.0	.0	.4
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	.2	.0	.4
13-16	.0	.0	.0	.3	.7	.0	1.0	.0	.0	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.4	.2	.0	.6	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	3.6	4.8	2.1	.0	12.4	.0	1.4	3.6	1.4	.7	.0	7.1

PERIOD: (OVER-ALL) 1963-1971

MARCH

TABLE 18 (CONT)

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	.2	.0	.0	.0	.0		.6	.0	.8	.0	.0	.0	.0		.8
1-2	.0	1.8	.5	.0	.0	.0		2.4	.0	1.1	.0	.0	.0	.0		1.1
3-4	.0	.7	1.3	.5	.0	.0		2.6	.0	.3	1.4	.0	.0	.0		1.7
5-6	.0	.0	.3	.2	.0	.0		.5	.0	.2	1.2	.6	.0	.0		2.0
7	.0	.0	.7	.1	.0	.0		.8	.0	.0	2.3	.1	.2	.0		2.6
8-9	.0	.0	.0	.1	.1	.0		.3	.0	.0	.8	.4	.0	.0		1.2
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.2	.4	.7	.2	.0		1.5
12	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.2	.0	.0		.2
13-16	.0	.0	.0	.4	.1	.0		.5	.0	.0	.0	.2	.0	.0		.2
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.3	.0		.3
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.3	.4		.7
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	2.8	2.9	1.6	.3	.0		8.0	.0	2.6	6.2	2.3	1.1	.4		12.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.7	.3	.0	.0	.0		1.0	.0	.7	.0	.0	.0	.0		.7	
1-2	.0	1.1	.6	.0	.0	.0		1.7	.0	.5	.0	.0	.0	.0		.5	
3-4	.0	1.0	3.0	.2	.0	.0		4.2	.0	1.0	2.2	.4	.0	.0		3.6	
5-6	.0	.6	1.0	.2	.0	.0		2.7	.0	.2	.7	.8	.0	.0		1.8	
7	.0	.0	.7	.8	.2	.0		1.8	.0	.0	.9	.1	.0	.0		1.0	
8-9	.0	.0	.4	.8	.1	.0		1.4	.0	.0	.4	.5	.0	.0		1.0	
10-11	.0	.0	.2	1.2	.0	.0		1.4	.0	.0	.0	.2	.0	.0		.2	
12	.0	.0	.4	.5	.1	.1		1.2	.0	.0	.0	.2	.4	.0		.7	
13-16	.0	.0	.0	.3	.7	.0		1.1	.0	.0	.0	.5	.1	.0		.6	
17-19	.0	.0	.2	.3	1.1	.0		1.6	.0	.0	.0	.1	.2	.0		.3	
20-22	.0	.0	.0	.1	.7	.0		.8	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	3.4	7.8	4.7	3.2	.1		19.2	.0	2.4	4.3	2.8	.8	.0		10.4	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.5	4.1	.8	.0	.0	.0	8.5	
1-2	.0	8.1	3.0	.0	.0	.0	11.0	
3-4	.2	4.9	13.4	1.6	.0	.0	20.1	
5-6	.0	2.2	9.6	4.5	.0	.0	16.3	
7	.0	.2	8.3	4.7	1.4	.0	14.6	
8-9	.0	.2	2.2	4.3	1.0	.0	7.7	
10-11	.0	.2	1.6	3.7	.2	.2	5.9	
12	.0	.0	.4	2.2	1.2	.2	3.9	
13-16	.0	.2	.0	2.8	2.6	.0	5.5	
17-19	.0	.0	.2	1.0	1.8	.4	3.3	
20-22	.0	.0	.0	.2	1.6	.8	2.6	
23-25	.0	.0	.0	.2	.2	.0	.4	
26-32	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.7	20.1	39.4	25.2	10.0	1.6	100.0	508

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	4.2	11.2	7.4	4.1	1.8	.4	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	394	4
6-7	.0	.7	4.2	6.1	6.7	4.1	3.5	2.6	1.1	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	386	7
8-9	.1	.1	1.3	1.1	3.3	2.6	2.8	1.6	2.7	.7	.7	.2	.1	.0	.0	.0	.0	.0	.0	223	10
10-11	.0	.1	.2	.5	1.0	.5	.6	1.0	1.4	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	85	11
12-13	.0	.0	.2	.1	.2	.3	.1	.4	.3	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	24	11
>13	.0	.0	.0	.0	.2	.1	.2	.0	.4	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	18	14
INDET	1.5	1.8	3.5	2.3	1.6	.9	.8	.2	.4	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	173	5
TOTAL	27	70	269	228	223	133	110	79	85	32	22	4	3	0	0	0	0	0	0	1305	7
PCT	2.1	6.9	20.6	17.5	17.1	10.2	8.4	6.1	6.5	2.5	1.7	.3	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1950-1971
(OVER-ALL) 1879-1971

APRIL

AREA 0005 PLACENTIA RAY SOUTH
46.0N 54.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WEA
N	2.1	1.0	1.3	.0	7.2	.4	.0	10.8	1.5	.0	11.3	.9	.9	.0	74.6
NE	6.7	1.1	2.9	.0	8.7	1.4	.0	20.9	2.2	.0	14.8	.6	.0	.0	61.5
E	15.7	1.5	5.3	.0	5.0	.4	.4	27.0	1.1	.0	26.0	1.8	1.5	.0	42.6
SE	23.0	.9	2.7	.0	3.8	.0	.2	29.5	1.3	.7	31.6	1.3	1.6	.0	34.0
S	19.8	1.4	4.1	.0	1.8	.0	.0	25.5	3.1	.0	22.7	.5	1.3	.0	46.9
SW	4.4	.4	1.3	.2	2.7	.3	.3	9.5	1.6	.0	20.9	.9	1.9	.0	65.1
W	1.8	.2	.2	.1	5.4	.0	.0	7.2	2.9	.0	7.6	1.1	1.2	.0	80.0
NW	.6	.5	.0	.0	5.3	.0	.0	6.3	2.7	.0	5.7	.6	.6	.0	84.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2	3.2	.0	.0	3.2	.0	.0	9.7	.0	.0	16.1	.0	.0	.0	74.2
TOT PCT	7.3	.8	1.8	.1	4.9	.3	.1	14.6	2.1	.1	15.8	1.0	1.2	.0	63.3
TOT OBS:	1883														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WEA
00003	7.3	.9	1.5	.2	4.3	.2	.0	14.1	2.4	.0	14.5	.8	1.9	.0	66.4
06009	9.0	.7	1.9	.0	6.1	.0	.2	16.8	2.1	.2	14.7	1.4	.5	.0	64.3
12015	6.8	.2	2.8	.0	5.1	.4	.0	15.0	2.1	.0	16.7	.9	1.3	.0	64.1
18021	6.1	1.2	1.2	.0	4.1	.4	.2	12.5	1.6	.0	18.4	.8	.8	.0	65.8
TOT PCT	7.3	.8	1.8	.1	4.9	.3	.1	14.5	2.1	.1	16.1	.9	1.2	.0	63.2
TOT OBS:	1911														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	3.1	6.0	2.5	.5	*		12.5	16.2		10.2	12.1	13.9	18.3	13.4	12.9	12.0	10.2
NE	.3	2.7	3.5	1.9	.3	*		8.7	16.4		10.3	9.3	5.8	9.8	8.0	9.9	8.7	10.2
E	.2	2.4	4.1	2.1	.6	*		9.5	17.3		9.4	8.4	9.1	10.9	11.6	10.6	8.3	6.8
SE	.3	2.2	3.0	1.5	.2	*		7.4	15.7		5.4	9.2	7.9	7.1	7.8	9.1	7.3	7.5
S	.4	3.2	4.6	1.9	.4	*		10.5	15.7		10.1	8.1	10.3	10.7	11.2	12.3	9.9	12.5
SW	.1	5.3	7.0	2.8	.3	*		15.7	15.3		16.0	18.8	13.6	16.7	14.7	13.4	16.9	16.6
W	.4	6.0	10.0	5.5	1.6	.2		23.8	17.7		24.9	24.8	24.2	18.5	20.7	23.9	26.2	23.9
NW	.4	3.0	4.3	2.4	.3	*		10.4	16.3		12.2	8.1	12.2	6.9	11.0	7.1	9.3	10.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0		1.5	1.2	3.0	.9	1.6	.7	1.3	2.1
TOT OBS	86	571	869	421	85	9	2041		16.2		409	161	337	112	376	134	372	140
TOT PCT	4.2	28.0	42.6	20.6	4.2	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	1.3	5.7	4.4	.9	.2		12.5	16.2	10.7	15.0	13.2	11.5	
NE	1.2	3.5	2.8	.9	.2		8.7	16.4	10.0	6.8	8.5	9.1	
E	.9	4.1	2.9	1.4	.1		9.5	17.3	9.1	9.6	11.3	7.9	
SE	1.0	3.3	2.3	.7	.1		7.4	15.7	6.4	7.7	8.2	7.3	
S	1.2	5.1	3.1	.9	.2		10.5	15.7	9.5	10.4	11.5	10.6	
SW	1.8	7.8	5.1	.9	.1		15.7	15.3	16.8	14.4	14.4	16.8	
W	2.2	10.3	7.5	3.1	.7		23.8	17.7	24.9	22.8	21.6	25.6	
NW	1.5	4.3	3.2	1.4	.4		10.4	16.3	11.1	10.9	10.0	9.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.7						1.7	.0	1.4	2.4	1.4	1.6	
TOT OBS	262	900	638	207	34	2041		16.2	570	449	510	512	
TOT PCT	12.8	44.1	31.3	10.1	1.7		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1950-1971
(OVER-ALL) 1979-1971

APRIL

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.4	2.1	26.3	43.7	21.8	4.0	.7	16.5	100.0	570
0600	2.4	2.2	31.2	40.5	19.4	4.0	.2	15.5	100.0	449
1200	1.4	2.9	26.3	41.4	23.1	4.7	.2	16.6	100.0	510
1800	1.6	2.9	28.7	44.3	18.0	3.9	.6	15.9	100.0	512
TOT	34	52	571	869	421	85	9	16.2		2041
PCT	1.7	2.5	28.0	42.6	20.6	4.2	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	2.9	1.0	2.3	5.5		5.5
NE	.9	.7	1.0	5.2		6.5
E	.8	.3	.9	7.9		7.0
SE	.6	.2	.6	5.6		7.0
S	1.3	.5	1.5	6.9		6.5
SW	4.1	1.2	2.9	7.5		5.4
W	8.5	2.8	4.6	9.5		4.7
NW	4.0	1.2	1.7	3.5		4.4
VAR	.0	.0	.0	.0		.0
CALM	.7	.1	.2	.8		4.6
TOT OBS	374	125	245	821	1565	5.6
TOT PCT	23.9	8.0	15.7	52.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.0	.0	.3	.7	2.2	2.1	.5	*	.1	.2	4.6	
NE	1.0	.1	.5	.4	1.9	1.4	.1	*	.0	.1	2.3	
E	2.1	*	.4	.9	2.5	1.3	.3	.1	*	.4	1.9	
SE	2.1	.0	.3	.9	1.2	.7	.3	.1	.1	.2	1.3	
S	2.2	.1	.2	.8	1.3	1.3	.4	.1	.2	.2	3.4	
SW	1.8	.2	.4	1.2	1.7	1.6	.4	.5	.2	.6	7.1	
W	.9	.0	.4	1.7	3.1	3.7	.7	.3	.2	.8	13.7	
NW	.4	.0	.1	.4	1.2	1.5	.4	.1	.3	.1	5.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.0	.3	.2	.1	.0	.0	.1	.9	
TOT OBS	184	7	41	109	240	213	49	19	18	40	645	1565
TOT PCT	11.8	.4	2.6	7.0	15.3	13.6	3.1	1.2	1.2	2.6	41.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>5000	>0
>6500	2.5	3.1	3.4	3.4	3.5	3.7	3.7	3.7
>5000	3.0	4.3	4.7	4.7	4.7	4.9	4.9	4.9
>3500	4.7	7.1	7.6	7.8	7.8	8.0	8.0	8.0
>2000	10.5	18.8	20.9	21.2	21.2	21.5	21.7	21.7
>1000	15.4	29.6	34.7	35.8	36.4	36.8	37.2	37.2
>600	17.3	34.0	41.1	42.5	43.3	43.7	44.2	44.2
>300	17.7	34.7	42.4	44.5	45.7	46.2	46.8	46.8
>150	17.7	34.8	42.6	44.7	45.9	46.5	47.1	47.1
>0	17.7	34.9	43.3	46.1	48.5	51.4	57.5	58.9
TOTAL	277	347	680	723	761	806	902	924

TOTAL NUMBER OF OBS: 1569

PCT FREQ NH <5/8: 41.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	10.8	5.7	8.2	4.0	2.8	2.7	5.0	6.0	35.0	10.9	1655

APRIL

PERIOD: (PRIMARY) 1950-1971
(OVER-ALL) 1870-1971AREA 0005 PLACENTIA BAY SOUTH
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.2	.4	.5	.5	.3	.2	*	.0	.1	2.1	
	NO PCP	1.0	.5	1.4	1.7	1.6	2.1	.8	.4	.0	.2	9.5	
	TOT %	1.1	.7	1.8	2.2	2.1	2.2	1.0	.4	.0	.3	11.6	
1/2<1	PCP	.2	.3	.2	.1	.2	*	.1	.0	.0	.0	1.2	
	NO PCP	.1	.4	.3	.3	.2	.3	.3	.1	.0	.0	2.0	
	TOT %	.4	.7	.5	.4	.4	.4	.4	.1	.0	.0	3.2	
1<2	PCP	.3	.3	.3	.2	.4	.2	.1	.1	.0	.0	2.0	
	NO PCP	.2	.2	.3	.1	.1	.2	.1	.1	.0	.0	1.4	
	TOT %	.5	.5	.6	.3	.5	.4	.2	.2	.0	.0	3.4	
2<5	PCP	.4	.4	.8	.8	1.0	.4	.3	.1	.0	.1	4.4	
	NO PCP	.3	.6	.9	.5	.7	1.1	1.4	.5	.0	.1	6.1	
	TOT %	.7	.9	1.7	1.4	1.8	1.5	1.6	.6	.0	.2	10.5	
5<10	PCP	.2	.5	.8	.5	.6	.4	.9	.3	.0	.0	4.4	
	NO PCP	3.0	1.7	1.7	1.3	2.4	4.3	6.6	1.8	.0	.3	23.0	
	TOT %	3.2	2.2	2.5	1.8	2.9	4.8	7.5	2.1	.0	.3	27.4	
10+	PCP	.1	*	.2	.1	.0	.1	.2	.1	.0	.0	.6	
	NO PCP	6.4	3.2	2.5	1.3	2.7	6.3	13.2	6.8	.0	.9	43.3	
	TOT %	6.4	3.3	2.7	1.3	2.7	6.4	13.3	6.9	.0	.9	43.9	
TOT OBS													1880
TOT PCT													
1880													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.1	.1	.0	.1	.1	.1	.0	.3	.7	
	4-10	.3	.4	.6	.5	.5	.6	.5	.2	.0	.0	3.7	
	11-21	.6	.2	.9	.9	1.2	1.1	.3	.1	.0	.0	5.2	
	22+	.1	.2	.2	.6	.5	.4	.2	.0	.0	.0	2.1	
	TOT %	1.0	.8	1.7	2.1	2.2	2.2	1.1	.4	.0	.3	11.8	
1/2<1	0-3	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.0	.2	.1	.1	.1	.3	.1	.1	.0	.0	1.0	
	11-21	.3	.3	.2	.2	.1	.1	.1	.0	.0	.0	1.2	
	22+	.1	.2	.2	.2	.2	*	.1	.0	.0	.0	.9	
	TOT %	.4	.7	.5	.4	.4	.4	.4	.1	.0	.0	3.1	
1<2	0-3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.2	.2	.1	.1	.1	.3	.1	.1	.0	.0	1.1	
	11-21	.2	.1	.3	.1	.2	.2	.2	.1	.0	.0	1.3	
	22+	.2	.3	.1	.1	.2	.1	*	.1	.0	.0	1.0	
	TOT %	.5	.5	.6	.3	.5	.5	.3	.2	.0	.0	3.5	
2<5	0-3	.0	.1	.0	.0	.1	.0	.0	.1	.0	.2	.5	
	4-10	.2	.1	.3	.2	.2	.4	.2	.1	.0	.0	1.6	
	11-21	.3	.4	.6	.6	.6	.7	.6	.2	.0	.0	4.2	
	22+	.2	.3	.8	.6	.8	.3	.7	.2	.0	.0	4.0	
	TOT %	.7	1.0	1.7	1.4	1.7	1.5	1.6	.6	.0	.2	10.2	
5<10	0-3	.1	.1	.1	.1	.2	.1	.1	.1	.0	.3	1.0	
	4-10	.5	.4	.3	.6	1.1	1.4	1.4	.4	.0	.0	6.4	
	11-21	1.7	.9	.9	.9	1.3	2.1	2.4	.9	.0	.0	11.0	
	22+	.8	.8	.9	.1	.3	1.2	3.3	.7	.0	.0	8.2	
	TOT %	3.1	2.2	2.4	1.7	2.9	4.8	7.2	2.1	.0	.3	26.6	
10+	0-3	.2	.1	.1	.1	.1	*	.2	.1	.0	.9	1.6	
	4-10	2.0	1.3	.7	.7	1.2	2.5	3.6	2.3	.0	.0	14.2	
	11-21	2.7	1.5	1.3	.4	1.3	3.0	6.7	3.0	.0	.0	19.8	
	22+	1.5	.4	.7	.3	.3	1.1	3.0	1.5	.0	.0	8.9	
	TOT %	6.4	3.3	2.7	1.5	3.0	6.6	13.4	7.0	.0	.9	44.7	
TOT OBS													1971
TOT PCT													
1971													

APRIL

PERIOD: (PRIMARY) 1950-1971
(OVER-ALL) 1879-1971AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL OBS	NH <3/8 ANY HGT	TOTAL OBS
00003	11.7	.5	2.1	5.7	16.3	14.0	3.0	2.3	1.8	2.8	60.2	39.8	435
06009	11.5	.6	3.1	7.8	15.4	13.7	2.8	.3	.6	3.1	58.8	41.2	357
12015	11.9	.3	2.1	8.5	15.6	14.0	3.4	1.1	1.1	2.1	60.1	39.9	378
18021	11.4	.5	3.0	5.8	14.2	12.1	3.0	.9	.9	2.1	53.8	46.2	431
TOT	186	7	41	110	246	215	49	19	18	40	931	670	1601
PCT	11.6	.4	2.6	6.9	15.4	13.4	3.1	1.2	1.1	2.5	58.2	41.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	11.0	2.0	4.1	11.5	29.8	41.7	557
06009	11.5	3.6	3.4	10.2	22.9	48.4	442
12015	13.1	3.6	3.8	8.6	27.5	43.4	498
18021	12.5	3.8	2.6	10.4	24.5	46.2	502
TOT	240	64	70	204	527	894	1999
PCT	12.0	3.2	3.5	10.2	26.4	44.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <3/8 AND 5+	TOTAL OBS
00003	12.3	16.0	30.0	33.0	37.0	424
06009	11.8	18.7	33.4	28.2	38.3	347
12015	11.9	16.7	31.8	31.0	37.1	377
18021	11.4	17.8	32.1	26.1	41.8	421
TOT	186	271	498	465	606	1569
PCT	11.9	17.3	31.7	29.6	38.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
50/54	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
45/49	.0	.0	.0	.0	.1	.1	.2	.4	12	.9
40/44	.0	.1	.1	.0	.7	1.2	3.1	4.8	137	10.0
35/39	.0	.0	.1	.2	1.3	4.6	11.9	28.0	630	46.1
30/34	.0	.0	.1	.3	1.2	4.5	11.5	20.2	516	37.8
25/29	.0	.0	.0	.0	.1	1.0	1.4	2.3	65	4.8
20/24	.0	.0	.0	.0	.0	.0	.0	.3	4	.3
TOTAL	0	1	4	7	48	157	385	764	1366	100.0
PCT	.0	.1	.3	.5	3.5	11.5	28.2	55.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
50/54	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
45/49	.0	.1	.1	.1	.2	.2	.1	*	.0	.0
40/44	.9	.4	1.6	.9	2.3	2.2	1.2	.5	.0	.1
35/39	4.4	2.9	4.8	4.6	6.4	7.1	11.1	4.1	.0	.5
30/34	5.8	3.9	3.8	1.8	2.1	5.3	9.7	4.9	.0	.4
25/29	.9	.4	.1	.1	.2	.1	2.1	.8	.0	.1
20/24	*	.0	.0	.0	.0	.0	.2	*	.0	.0
TOTAL	12.1	7.7	10.4	7.5	11.3	15.0	24.5	10.3	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	48	44	40	35	30	27	26	34.9	370
06009	51	44	40	34	28	23	21	34.3	451
12015	55	45	41	35	30	27	24	35.3	508
18021	48	45	43	36	31	28	25	36.5	508
TOT	55	45	41	35	30	27	21	35.3	2037

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.5	3.6	12.4	25.4	58.1	89	394		
06009	.0	.3	1.6	8.1	30.6	59.4	90	310		
12015	.0	1.4	3.1	13.4	28.0	54.0	88	350		
18021	.0	1.2	5.5	11.0	31.1	31.2	88	328		
TOT	0	12	48	157	395	770	89	1382		

APRIL

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46.0N 94.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.1	.3	.3	.0	11	.3	.4
9/10	.0	.0	.0	.1	.6	.8	.3	.0	28	.4	1.3
7/8	.0	.0	.0	.4	2.6	1.8	.2	.0	79	1.1	3.9
6	.0	.0	.0	.8	2.0	.4	.1	.0	52	.8	2.5
5	.0	.0	.1	1.5	3.5	.5	.1	.0	89	1.1	4.6
4	.0	.0	.1	4.3	3.1	.4	.1	.0	125	1.8	6.2
3	.0	.0	.3	6.7	3.8	.4	.0	.0	178	1.7	9.7
2	.0	.0	1.5	7.9	2.7	.2	.1	.0	194	1.7	10.7
1	.0	.0	1.8	9.5	2.2	.3	.0	.1	218	1.9	12.0
0	.0	.1	3.5	7.5	1.8	.1	.0	.0	204	1.8	11.2
-1	.0	.1	3.6	4.0	.4	.0	.0	.0	129	1.0	7.2
-2	.0	.4	2.9	2.4	.4	.1	.0	.0	97	.8	5.3
-3	.0	.5	1.3	1.4	.3	.0	.0	.0	55	.5	3.0
-4	.0	.8	.7	.6	.3	.0	.0	.0	38	.5	1.9
-5	.1	.3	.6	.3	.3	.0	.0	.0	24	.1	1.4
-6	.0	.3	.6	.3	.1	.0	.0	.0	20	.1	1.1
-7/-8	.2	.1	.2	.3	.1	.0	.0	.0	13	.1	.7
-9/-10	.1	.1	.0	.2	.1	.0	.0	.0	7	.1	.4
-11/-13	.0	.0	.1	.3	.1	.0	.0	.0	7	.0	.4
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
-17/-19	.0	.0	.0	.1	.0	.0	.0	.0	2	.0	.1
-23/-25	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
TOTAL	6	42	273	763	83	18	2	1573	249	1324	
PCT	.4	2.7	17.4	48.5	24.5	5.3	1.1	.1	100.0	15.8	84.2

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) BY DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.7	.2	.4	.0	.0	.0	.0	.6
1-2	.0	1.7	.8	.0	.0	.0	2.5	.0	1.1	.2	.0	.0	.0	1.2
3-4	.0	1.1	1.1	.4	.0	.0	2.6	.0	.5	1.4	.0	.0	.0	2.0
5-6	.0	.2	2.3	1.0	.3	.0	3.8	.0	.0	1.1	.5	.0	.0	1.7
7	.0	.0	.7	1.2	.0	.0	1.9	.0	.0	.3	.4	.0	.0	.7
8-9	.0	.0	.1	.7	.0	.0	.8	.0	.0	.2	.4	.0	.0	.6
10-11	.0	.0	.0	.3	.2	.0	.5	.0	.0	.2	.6	.2	.0	1.0
12	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.6	.0	.0	.6
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.4	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TNT PCT	.4	3.3	5.1	4.0	.8	.0	13.6	.2	2.0	3.4	2.6	.6	.0	8.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8	.4	.5	.0	.0	.0	.0	.9
1-2	.0	1.1	.0	.0	.0	.0	1.1	.2	.5	.3	.0	.0	.0	1.0
3-4	.0	1.1	2.2	.7	.0	.0	4.1	.0	.2	.3	.5	.0	.0	1.1
5-6	.0	.0	1.2	.1	.2	.0	1.5	.0	.2	.5	.2	.0	.0	1.0
7	.0	.0	.4	.4	.9	.0	1.6	.0	.0	.4	.4	.0	.0	.7
8-9	.0	.0	.5	.7	.0	.0	1.2	.0	.0	.0	.2	.2	.0	.4
10-11	.0	.0	.2	.9	.4	.0	1.5	.0	.0	.2	.5	.2	.0	.9
12	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TNT PCT	.0	3.0	4.5	3.9	1.5	.0	12.8	.5	1.4	1.8	1.8	.4	.0	6.0

PERIOD: (OVER-ALL) 1963-1971

APRIL

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	.7	.2	.0	.0	.0	.9
1-2	.2	1.7	.6	.0	.0	.0	2.5	.0	1.9	1.8	.0	.0	.0	3.7
3-4	.0	.4	1.1	.2	.0	.0	1.7	.0	1.1	2.1	.4	.0	.0	3.6
5-6	.0	.0	1.5	.1	.0	.0	1.6	.0	.4	2.2	.5	.0	.0	3.1
7	.0	.0	.3	.5	.0	.0	.7	.0	.0	.5	.7	.0	.0	1.1
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.4	.0	.0	.5
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.2	.3	.0	.0	.4
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.7	3.4	1.5	.1	.0	7.9	.8	4.1	6.9	2.9	.0	.2	14.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	1.6	.0	.0	.0	.0	1.7	.2	.8	.0	.0	.0	.0	1.0	
1-2	.0	2.6	2.0	.0	.0	.0	4.6	.0	1.6	.8	.0	.0	.0	2.3	
3-4	.0	1.9	3.0	.7	.0	.0	5.6	.4	.8	.7	.5	.0	.0	2.4	
5-6	.0	.3	1.9	.4	.0	.0	2.6	.0	.0	1.3	.5	.2	.0	2.1	
7	.0	.0	.9	1.6	.5	.0	3.0	.0	.0	.5	.6	.0	.0	1.1	
8-9	.0	.0	.0	1.3	.2	.0	1.5	.0	.0	.2	.4	.0	.0	.6	
10-11	.0	.0	.2	.5	.0	.0	.7	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.1	.5	.4	.0	1.0	.0	.0	.2	.2	.0	.0	.4	
13-16	.0	.0	.0	.7	.5	.2	1.4	.0	.0	.0	.2	.1	.0	.3	
17-19	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	6.4	8.1	6.2	1.9	.2	22.9	.5	3.2	3.6	2.8	.3	.0	10.4	96.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.9	5.6	.2	.0	.0	.0	10.6	
1-2	1.4	11.9	6.3	.0	.0	.0	19.6	
3-4	.4	7.0	11.9	3.4	.0	.0	22.7	
5-6	.0	1.1	12.1	4.4	.7	.0	17.3	
7	.0	.0	3.8	4.6	1.4	.0	10.8	
8-9	.0	.0	1.1	4.1	.4	.0	5.6	
10-11	.0	.0	.9	3.6	.9	.0	5.4	
12	.0	.0	.4	9.1	.4	.0	3.8	
13-16	.0	.0	.0	1.4	.2	.0	3.1	
17-19	.0	.0	.0	.4	.2	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.2	.2	.2	.5	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.7	25.6	36.6	25.2	5.6	.4	100.0	555

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	8.3	14.1	8.7	2.8	1.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	461
6-7	.0	1.4	5.0	6.1	7.6	3.1	2.1	1.1	1.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	360
8-9	.0	.4	.8	1.2	3.1	2.9	1.7	1.6	1.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	164
10-11	.0	.1	.3	.3	.7	.2	.4	.3	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66
12-13	.0	.0	.6	.0	.3	.1	.2	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21
>13	.0	.0	.0	.0	.2	.1	.2	.3	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	17
INDET	3.5	3.6	3.5	2.3	1.7	.6	.4	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	201
TOTAL	55	176	308	236	209	102	66	47	51	9	4	7	0	0	0	0	0	0	0	0	1270
PCT	4.3	13.9	24.3	18.6	16.5	8.0	5.2	3.7	4.0	.7	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	100.0

MAY

PERIOD: (PRIMARY) 1932-1971
(OVER-ALL) 1877-1971AREA 0005 PLACENTIA BAY SOUTH
46.0N 56.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
N	4.6	.5	2.8	.2	.7	.0	.0	8.9	.0	.0	16.2	.5	1.6	.0
NF	10.4	.4	6.8	.0	1.1	.0	.0	18.1	3.5	.0	26.8	1.3	.1	.0
E	13.8	1.1	7.3	.0	.3	.3	.3	22.4	2.4	.0	36.8	1.9	.9	.0
SE	10.7	.7	4.8	.0	.9	.4	.0	17.5	1.2	.0	43.0	1.1	1.0	.0
S	12.6	1.4	3.3	.0	1.0	.0	.0	18.3	1.0	.6	36.9	.8	1.4	.0
SW	7.0	1.0	1.4	.0	.4	.0	.0	9.9	1.1	.2	31.9	.6	1.0	.0
W	2.7	.5	1.0	.0	.2	.0	.0	4.3	.7	.2	15.5	.8	.4	.0
NW	3.4	1.1	4.3	.2	2.3	.0	.0	10.9	.4	.0	12.3	.7	1.1	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6	.0	1.6	.0	.0	.0	.0	3.2	.0	.0	39.7	.0	1.6	.0
TOT PCT	7.7	.8	3.5	*	.7	.1	*	12.7	1.2	.2	27.9	.9	.9	.0
TOT OBS:	2535													56.3

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
0000	9.4	1.2	3.4	.1	.4	.0	.0	14.5	.7	.3	28.4	.7	.7	.0
0600	9.4	.7	3.9	.0	1.1	.0	.0	15.0	1.7	.4	26.7	.9	.6	.0
1200	6.7	.8	2.6	.0	.7	.1	.1	10.6	1.1	.0	30.2	1.1	1.2	.0
1800	5.6	.6	4.0	.0	.8	.2	.0	11.0	1.4	.0	26.6	1.1	1.0	.0
TOT PCT	7.7	.8	3.4	*	.7	.1	*	12.6	1.2	.2	28.1	1.0	.9	.0
TOT OBS:	2596													56.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.6	2.8	3.5	.8	.2	*	7.9	13.3	6.5	9.4	8.4	7.8	9.6	7.5	7.3	6.6	6.6
NF	.4	3.4	3.7	1.4	.1	.0	9.0	13.9	9.0	9.0	9.6	12.5	10.1	7.7	6.3	8.9	8.9
E	.6	4.3	4.8	1.7	.2	.0	11.6	13.8	11.2	13.0	10.3	12.6	12.4	12.5	11.5	9.6	9.6
SE	.5	3.6	3.9	.7	*	.0	8.7	12.4	7.3	9.8	8.5	9.1	8.2	9.5	9.8	8.8	8.8
S	.7	5.4	5.2	1.7	.2	.0	13.2	12.8	14.3	12.4	13.9	9.8	13.4	14.5	13.2	10.8	10.8
SW	.8	7.2	7.7	2.2	.1	.0	18.0	13.0	19.8	14.4	15.3	12.8	16.7	20.0	20.3	23.4	23.4
W	.9	6.4	9.0	2.8	.4	.0	19.4	14.2	20.6	21.6	19.5	19.1	17.5	14.5	20.5	22.5	22.5
NW	.5	3.6	3.5	1.6	.4	*	9.6	14.5	8.2	10.0	10.1	14.8	8.7	11.9	9.2	8.1	8.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	3.1	.4	4.3	1.5	3.2	2.0	2.0	1.3	1.3
TOT OBS	216	1067	1704	381	48	1	2918	13.2	554	241	399	196	587	755	454	232	232
TOT PCT	7.4	36.6	41.3	13.1	1.6	*		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.8	3.7	1.9	.5	.1	7.9	13.3	7.4	8.2	8.9	7.0	7.0
NE	1.6	4.5	2.3	.7	.0	9.0	13.9	9.0	10.6	9.4	7.2	7.2
E	2.3	5.5	2.9	.9	.0	11.6	13.8	11.8	11.1	12.4	10.8	10.8
SE	1.6	4.8	2.1	.1	.0	8.7	12.4	8.0	8.7	8.6	9.5	9.5
S	2.9	6.7	2.9	.6	.0	13.2	12.8	13.7	12.6	13.7	12.4	12.4
SW	3.3	9.8	4.0	.9	.0	18.0	13.0	18.1	14.5	17.7	21.3	21.3
W	2.9	9.8	5.6	1.1	.0	19.4	14.2	20.9	19.4	16.6	21.2	21.2
NW	1.6	4.7	2.5	.7	.1	9.6	14.5	8.7	11.6	9.7	8.8	8.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5					2.5	.0	2.3	3.4	2.9	1.7	1.7
TOT OBS	601	1446	707	140	4	2918	13.2	795	595	842	686	686
TOT PCT	20.6	49.6	24.2	5.5	.1		100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1932-1971
(OVER-ALL) 1877-1971

MAY

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.3	5.4	36.2	41.5	14.0	.6	.0	13.0	100.0	795
06009	3.4	4.4	35.3	42.4	12.4	2.0	.2	13.4	100.0	595
12015	2.9	4.6	39.4	39.7	11.9	1.9	.0	12.7	100.0	842
18021	1.7	5.0	34.5	42.1	14.4	2.2	.0	13.7	100.0	686
TOT	74	142	1067	1205	381	48	1	13.2		2918
PCT	2.5	4.9	36.6	41.3	13.1	1.6	*	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.0	.5	1.5	4.5		5.8
NE	1.2	.3	1.5	6.6		6.7
E	.5	.2	.9	9.2		7.4
SE	.3	.4	1.2	6.9		7.3
S	1.7	.6	2.1	8.8		6.6
SW	4.6	1.1	2.7	9.2		5.5
W	7.1	2.2	4.2	6.2		4.5
NW	2.7	1.0	2.1	3.6		5.1
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	.3	1.6		5.8
TOT OBS	391	116	310	1068	1885	5.9
TOT PCT	20.7	6.2	16.4	56.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 290	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.8	*	.2	.4	1.8	1.4	.4	.2	.2	.1	2.8	
1.6	.1	.8	1.0	1.8	1.1	.3	.1	.1	.3	2.3	
3.5	.1	.6	1.2	2.3	1.2	.4	.1	*	.1	1.5	
3.4	.1	.5	.7	1.0	.5	.4	.1	.1	.3	1.6	
4.8	*	.5	.7	1.3	1.0	.4	.3	.3	.2	3.7	
4.7	.3	.3	1.1	1.4	1.0	.5	.2	.2	.5	7.4	
2.1	.0	.2	1.0	2.0	1.3	.6	.2	.2	.7	11.3	
.9	.0	.2	.8	1.2	1.1	.2	*	.1	.2	4.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.1	.0	.1	.1	.3	.2	.1	.0	.1	.1	.8	
430	12	63	132	247	166	62	24	26	47	676	1885
22.8	.6	3.3	7.0	13.1	8.8	3.3	1.3	1.4	2.5	35.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.1	3.5	3.8	3.8	3.8	3.8	3.8	3.8
= OR >5000	2.8	4.8	5.0	5.0	5.1	5.1	5.1	5.1
= OR >3500	4.4	7.9	8.2	8.3	8.3	8.3	8.3	8.3
= OR >2000	8.2	16.0	16.7	16.9	17.1	17.2	17.3	17.3
= OR >1000	13.7	26.3	29.5	30.2	30.5	30.6	30.7	30.7
= OR >600	15.6	30.4	35.5	36.7	37.4	37.5	37.6	37.7
= OR >300	15.9	31.4	37.9	39.6	40.5	40.6	40.9	40.9
= OR >150	15.9	31.6	38.3	40.1	41.1	41.2	41.5	41.5
= OR >0	16.0	32.1	39.5	42.2	44.8	48.8	61.0	64.3
TOTAL	306	615	757	809	858	936	1170	1232

TOTAL NUMBER OF OBS: 1917

PCT FREQ NH <5/8: 35.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
16.2	8.7	5.3	3.0	2.4	2.5	5.0	6.0	30.7	20.3	2060

PERIOD: (PRIMARY) 1932-1971
(OVER-ALL) 1877-1971

MAY

TABLE 8

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY													
VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS	
<1/2	PCP	.1	.2	.2	.7	.4	.2	.3	.0	.0	2.3		
	NO PCP	.7	1.4	3.0	3.1	3.5	4.5	1.8	.7	.8	19.6		
	TOT %	.8	1.5	3.2	3.3	4.2	5.0	2.0	1.0	.8	21.9		
1/2<1	PCP	.1	.2	.1	.3	.2	.1	.1	.0	.0	1.1		
	NO PCP	.7	.5	.6	.4	.5	.4	.2	.1	.0	3.1		
	TOT %	.8	.7	.7	.7	.7	.5	.3	.1	.0	4.2		
1<2	PCP	.1	.2	.2	.3	.2	.1	.0	.0	.0	1.6		
	NO PCP	.1	.2	.4	.2	.3	.3	.2	.0	.0	1.8		
	TOT %	.2	.4	.6	.5	.5	.4	.2	.0	.0	3.4		
2<5	PCP	.1	.8	.9	.3	.3	.3	.2	.0	.0	3.2		
	NO PCP	.4	.5	.6	.4	.8	.8	.3	.0	.1	4.4		
	TOT %	.5	1.3	1.5	.7	1.1	1.1	.5	.0	.1	7.7		
5<10	PCP	.4	.6	.7	.3	.7	.6	.3	.0	.0	4.1		
	NO PCP	2.2	1.9	1.9	1.7	2.8	4.0	5.2	.4	.5	22.8		
	TOT %	2.6	2.5	2.6	2.3	3.6	4.6	5.5	.4	.5	26.9		
10+	PCP	.1	.0	.0	.1	.0	.0	.0	.0	.0	.4		
	NO PCP	3.7	3.1	2.4	1.4	3.2	6.2	9.8	4.8	1.0	35.5		
	TOT %	3.8	3.1	2.4	1.4	3.3	6.2	9.8	4.8	1.0	35.9		
TOT DBS												2528	
TOT PCT	4.0	9.4	11.5	8.8	13.6	18.1	18.8	9.3	.0	2.5	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS
<1/2	0-3	.1	.2	.3	.2	.2	.2	.2	.0	.0	.7	2.0	
	4-10	.3	.6	1.4	1.3	1.5	2.1	.9	.5	.0	8.7		
	11-21	.3	.5	1.5	1.6	1.6	2.0	.7	.3	.0	8.6		
	22+	.0	.1	.1	.0	.8	.6	.2	.1	.0	1.8		
	TOT %	.7	1.5	3.3	3.2	4.0	4.8	2.0	1.0	.0	21.2		
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2		
	4-10	.1	.2	.2	.2	.3	.1	.1	.1	.0	1.4		
	11-21	.1	.1	.4	.3	.4	.3	.1	.1	.0	1.8		
	22+	.1	.1	.1	.0	.1	.2	.0	.0	.0	.7		
	TOT %	.3	.5	.8	.5	.8	.6	.3	.2	.0	4.0		
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1		
	4-10	.0	.1	.3	.1	.1	.1	.0	.0	.0	.8		
	11-21	.1	.2	.5	.2	.3	.2	.2	.1	.0	1.6		
	22+	.0	.0	.2	.1	.2	.1	.1	.0	.0	.8		
	TOT %	.1	.4	1.0	.5	.6	.5	.3	.1	.0	3.4		
2<5	0-3	.0	.1	.0	.0	.1	.0	.0	.0	.1	.4		
	4-10	.2	.2	.3	.2	.5	.5	.2	.2	.0	2.3		
	11-21	.2	.5	.5	.3	.3	.5	.5	.2	.0	3.0		
	22+	.1	.5	.6	.1	.3	.2	.1	.2	.0	2.2		
	TOT %	.5	1.4	1.5	.7	1.1	1.2	.9	.6	.1	7.9		
5<10	0-3	.1	.0	.0	.1	.1	.1	.3	.1	.0	1.4		
	4-10	.6	.6	.9	.9	1.2	1.4	1.8	.8	.0	8.0		
	11-21	1.4	1.2	.9	.8	1.6	2.1	2.3	1.2	.0	11.5		
	22+	.4	.5	.7	.3	.4	.7	1.2	.5	.0	6.7		
	TOT %	2.5	2.3	2.5	2.1	3.3	4.4	5.4	2.6	.0	25.7		
10+	0-3	.4	.0	.1	.1	.3	.4	.3	.3	.0	3.0		
	4-10	1.7	1.4	1.0	.6	1.6	2.7	3.3	2.0	.0	14.4		
	11-21	1.5	1.2	1.2	.7	1.3	2.8	3.3	1.9	.0	19.9		
	22+	.5	.3	.1	.1	.3	.5	1.7	1.0	.0	6.6		
	TOT %	4.0	3.0	2.5	1.5	3.4	6.5	10.6	5.3	.0	37.8		
TOT DBS												2733	
TOT PCT	8.1	9.1	11.5	8.5	13.2	18.0	19.5	9.8	.0	2.5	100.0		

MAY

PERIOD: (PRIMARY) 1932-1971
(OVER-ALL) 1877-1971AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET-NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
GMT	149	299	599	999	1999	3499	4999	6499	7999				
00003	23.9	.6	2.7	5.8	16.4	7.1	3.7	1.3	1.5	2.1	65.1	34.9	519
06009	22.9	.5	2.9	9.5	10.5	11.9	2.4	1.5	.7	1.0	63.7	36.3	411
12015	22.8	1.0	3.8	7.3	12.7	8.6	3.3	1.0	1.5	2.9	64.9	35.1	521
18021	19.8	.4	3.4	5.2	12.2	8.2	3.2	1.1	1.3	3.2	58.2	41.8	524
TOT	441	12	64	134	258	174	63	24	26	47	1243	732	1975
PCT	22.3	.6	3.2	6.8	13.1	8.8	3.2	1.2	1.3	2.4	62.9	37.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
GMT							OBS
00003	22.1	4.5	3.1	7.7	26.3	36.3	734
06009	20.6	4.5	4.1	7.2	24.7	38.8	582
12015	21.4	4.2	7.5	9.4	25.4	36.0	794
18021	21.7	3.0	3.0	6.9	25.3	40.2	669
TOT	602	113	95	221	713	1055	2799
PCT	21.5	4.0	3.4	7.9	25.5	37.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET-NM >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NM <5/8 AND 54	TOTAL
GMT	<5000	<1	<5	AND 54		OBS
00003	24.3	28.9	39.7	28.5	31.8	906
06009	23.5	28.5	41.3	24.5	34.3	400
12015	23.4	29.0	42.7	25.6	31.7	904
18021	20.3	27.4	35.7	26.2	38.1	507
TOT	438	545	762	504	651	1917
PCT	22.6	28.4	39.7	26.3	34.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
55/59	.0	.0	.0	.1	.1	.0	.1	.1	7	.4
50/54	.0	.0	.1	.0	.2	.2	.3	.2	15	.8
45/49	.0	.0	.0	.2	.8	2.1	1.9	4.0	166	9.0
40/44	.0	.0	.1	.3	.8	3.3	10.5	22.3	685	37.2
35/39	.0	.0	.0	.3	.6	2.7	11.5	32.0	867	47.1
30/34	.0	.0	.0	.0	.2	.5	1.5	3.3	101	5.5
TOTAL	.0	.0	.2	.9	4.9	16.1	47.6	113.8	1841	100.0
PCT	.0	.0	.1	.8	2.7	8.7	25.9	61.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.0	.1	.2	.0	.0	.0
.0	.1	.0	.1	.2	.2	.2	.1	.0	.1
.2	.2	.6	.8	2.3	2.8	1.2	.6	.0	.3
2.0	3.0	3.6	4.8	6.6	7.2	6.3	2.7	.0	1.1
4.3	5.3	6.5	3.4	4.7	7.0	10.4	4.6	.0	.9
.7	.7	.5	.1	.3	.7	1.4	1.1	.0	.0
7.1	9.3	11.2	9.2	14.1	17.8	19.7	9.1	.0	2.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
GMT									OBS
00003	56	49	45	39	34	32	30	38.9	802
06009	53	49	45	38	34	32	30	38.4	605
12015	58	49	47	40	35	32	30	40.0	845
18021	61	54	48	41	35	33	31	41.1	694
TOT	61	50	46	39	34	32	30	39.6	2946

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
GMT										OBS
00003	.0	1.2	1.8	7.2	24.4	65.3	90	487		
06009	.0	.3	1.8	4.8	24.0	65.3	91	400		
12015	.0	.8	2.1	8.9	25.9	62.4	90	529		
18021	.0	1.3	5.2	13.6	28.9	51.1	88	464		
TOT	0	17	51	164	486	1162	90	1880		

PERIOD: (PRIMARY) 1937-1971
(OVER-ALL) 1877-1971

MAY

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	H FOG	WU FOG
17/19	.0	.0	.0	.0	.0	.0	*	*	2	.0	.1
14/16	.0	.0	.0	.0	.2	.1	.1	.0	9	*	.4
11/13	.0	.0	.0	.1	.4	.3	.0	.0	19	.4	.4
9/10	.0	.0	.2	.9	1.4	.7	*	.0	72	1.2	2.1
7/8	.0	.0	.9	2.5	2.2	.2	.0	.0	133	2.0	4.0
6	.0	.2	1.6	2.8	1.2	.1	.0	.0	132	2.1	3.8
5	.0	.4	3.6	3.2	1.0	.1	.0	.0	185	2.6	5.7
4	*	.8	5.7	3.7	.6	.1	.0	.0	246	3.0	7.9
3	*	1.0	6.8	3.5	.7	.0	.0	.0	270	3.6	8.5
2	.1	3.0	6.8	2.9	.6	.0	.0	.0	302	4.1	9.3
1	.2	4.6	7.0	2.1	*	.0	.0	.0	311	3.7	10.2
0	.2	3.1	5.2	1.8	.2	*	.0	.0	238	2.8	7.8
-1	.1	2.5	2.7	.7	.0	*	.0	.0	134	1.2	4.7
-2	.1	1.6	1.7	.4	*	*	.0	.0	89	.7	3.3
-3	.3	.9	.7	.3	.0	.0	.0	.0	49	.7	1.5
-4	.0	.4	.4	.1	*	.0	.0	.0	20	.2	.7
-5	*	*	.3	.1	.0	.0	.0	.0	12	.2	.3
-6	*	.0	.1	.1	.0	.0	.0	.0	5	.1	.1
-7/-8	*	.2	.2	.0	.0	.0	.0	.0	10	.1	.3
-9/-10	.0	.0	.1	.0	.0	.0	.0	.0	3	.0	.1
-11/-13	.0	.0	.0	*	.0	.0	.0	.0	1	.0	*
TOTAL	28	420	987	368	194	37	7	1	2242	645	1507
PCT	1.2	18.7	44.0	25.3	8.7	1.7	.3	*	100.0	28.8	71.2

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	.0	.0	.0	.0	1.4	.4	.6	.0	.0	.0	.0	1.0
1-2	.0	1.4	.8	.0	.0	.0	2.2	.0	1.2	.7	.0	.0	.0	1.9
3-4	.0	.5	1.4	.2	.0	.0	2.0	.0	1.3	1.0	.3	.0	.0	2.6
5-6	.0	.3	.6	.2	.0	.0	1.0	.0	.0	.8	.2	.0	.0	1.0
7	.0	.2	.3	.1	.0	.0	.6	.0	.0	.7	.2	.0	.0	.9
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.2	.2	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.3
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.2	3.4	.6	.0	.1	7.8	.4	3.1	3.2	1.6	.3	.0	8.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.3	.0	.0	.0	1.5	.0	.2	.0	.0	.0	.0	.2
1-2	.2	1.1	.7	.0	.0	.0	2.0	.3	1.5	.1	.0	.0	.0	1.9
3-4	.0	1.4	2.4	.0	.0	.0	3.7	.0	.7	1.1	.0	.0	.0	1.8
5-6	.0	.2	1.4	.3	.0	.0	1.8	.0	.5	1.0	*	.0	.0	1.5
7	.0	.2	1.0	.2	.0	.0	1.3	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.2	.0	.0	.5	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.3	.0	.6	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.8	6.1	1.3	.3	.0	11.8	.9	2.9	3.0	.5	.0	.0	6.7

PERIOD: (OVER-ALL) 1963-1971

MAY

AREA 0005 PLACENTIA BAY SOUTH
46.0N 56.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.8	.0	.0	.0	.0	1.1	.3	1.0	.0	.0	.0	.0	1.3	
1-2	.2	2.8	1.1	.0	.0	.0	4.1	.2	2.3	2.3	.0	.0	.0	4.8	
3-4	.0	1.2	2.2	.3	.0	.0	3.7	.0	1.6	2.4	.3	.0	.0	4.4	
5-6	.0	.7	1.5	.6	.1	.0	2.9	.0	.5	1.8	.6	.0	.0	2.9	
7	.0	.1	.2	.2	.2	.0	.6	.0	.0	.9	1.1	.0	.0	2.0	
8-9	.0	.0	.2	.5	.0	.0	.7	.0	.0	.0	.5	.0	.0	.5	
10-11	.0	.0	.0	.4	.2	.0	.5	.0	.0	.3	.4	.0	.0	.7	
12	.0	.0	.0	.3	.0	.0	.5	.0	.0	.2	.4	.0	.0	.6	
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.2	.5	.0	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	5.6	5.1	2.5	.6	.0	14.2	.4	5.4	8.1	3.8	.1	.0	17.9	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.4	.1	.0	.0	.0	1.7	.2	.6	.0	.0	.0	.0	.8	
1-2	.0	2.6	2.5	.0	.0	.0	5.1	.7	1.6	.4	.0	.0	.0	1.9	
3-4	.0	1.5	3.5	.4	.0	.0	5.4	.0	.3	1.8	.2	.0	.0	2.5	
5-6	.0	.3	2.9	.8	.0	.0	4.0	.0	.2	1.2	.7	.2	.0	2.3	
7	.0	.0	1.8	.6	.2	.0	2.5	.0	.0	.5	.5	.2	.0	1.2	
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.3	.9	.0	.0	1.2	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	5.8	11.2	2.9	.4	.0	20.6	.3	2.8	4.3	1.8	.3	.0	9.5	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.2	6.7	.4	.0	.0	.0	12.4	
1-2	.9	14.2	8.3	.0	.0	.0	23.7	
3-4	.0	8.7	15.6	1.6	.0	.0	25.9	
5-6	.0	2.5	11.1	9.3	.3	.0	17.2	
7	.0	.0	6.3	2.7	.4	.1	10.0	
8-9	.0	.0	.7	1.8	.1	.0	2.7	
10-11	.0	.0	.9	3.0	.4	.0	4.0	
12	.0	.0	.4	1.0	.4	.0	1.9	
13-16	.0	.0	.1	1.3	.4	.0	1.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.1	32.7	44.2	14.8	1.9	.1	100.0	667

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	9.3	14.1	8.4	3.9	.7	.6	.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	596	4
6-7	.1	.6	6.5	9.1	6.8	2.4	2.0	.4	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	432	6
8-9	.0	.2	2.0	2.1	1.6	1.3	1.4	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	155	7
10-11	.0	.5	.4	.5	.5	.3	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	6
12-13	.0	.0	.3	.3	.3	.3	.1	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	22	9
13-14	.0	.0	.0	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	4.0	3.9	4.5	2.4	1.8	.4	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	265	3
TOTAL	88	221	421	349	229	82	67	31	22	7	1	1	1	0	0	0	0	0	0	1520	5
PCT	5.8	14.5	27.7	23.0	15.1	5.4	4.4	2.0	1.4	.5	.1	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1869-1971

JUNE

AREA 0005 PLACENTIA BAY SOUTH
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.8	.7	.0	.0	.0	.0	.0	5.5	.0	.0	16.6	.7	.6	.0	76.6
NE	13.5	.8	4.4	.0	.0	.0	.0	18.3	3.2	.0	17.9	2.3	.2	.0	58.1
E	16.4	.9	7.6	.0	.0	.0	.0	24.5	3.3	.0	30.8	.0	1.1	.0	40.2
SE	12.2	1.2	5.1	.0	.0	.0	.0	18.3	.5	.5	38.6	.9	.0	.0	41.7
S	5.0	.3	2.0	.0	.0	.0	.0	7.1	1.0	.2	55.2	.2	1.8	.0	34.5
SW	3.3	.5	2.6	.0	.0	.0	.0	6.3	.9	.4	42.5	1.5	1.3	.2	47.1
W	2.0	.5	.8	.0	.0	.0	.0	3.3	1.0	.6	21.9	1.1	1.1	.0	71.1
NW	1.5	.8	.8	.0	.0	.0	.0	3.0	.4	.4	21.1	1.0	.0	.0	74.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5	.0	1.5	.0	.0	.0	.0	2.9	.0	.0	41.2	5.9	.0	.0	50.0
TOT PCT	5.7	.6	2.6	.0	.0	.0	.0	8.8	1.1	.3	35.5	1.1	1.0	*	52.2
TOT OBS:	2270														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
00003	5.8	.6	3.3	.0	.0	.0	.0	9.4	.9	.4	34.2	.9	.9	.1	53.2	
06009	8.7	1.2	3.2	.0	.0	.0	.0	13.2	1.4	.6	33.3	1.0	.6	.0	50.1	
12015	4.0	.2	1.8	.0	.0	.0	.0	6.0	.8	.0	37.9	1.2	1.8	.0	52.4	
18021	4.7	.5	1.8	.0	.0	.0	.0	7.1	1.3	.2	36.9	1.6	.5	.0	52.4	
TOT PCT TOT OBS:	5.7 2320	.6	2.5	.0	.0	.0	.0	8.8	1.1	.3	35.6	1.2	1.0	*	52.2	

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.3	2.4	7.0	.9	*	.0		5.6	13.2	3.2	4.8	7.5	5.4	9.1	5.8	4.9	2.9
NE	.5	2.3	1.9	.8	.0	*		5.6	12.1	6.7	4.7	5.8	3.7	5.6	6.7	4.9	5.3
E	.8	2.9	3.2	.6	.1	*		7.6	11.9	7.8	7.4	7.4	5.1	7.2	8.2	7.9	9.6
SE	.8	3.7	3.8	.9	.1	.0		9.4	12.3	11.2	10.7	7.9	13.4	7.4	9.1	8.2	9.0
S	1.2	7.0	7.2	1.4	.1	.0		17.0	11.8	17.5	17.2	15.0	12.7	15.9	14.0	19.0	23.4
SW	1.0	10.3	13.8	2.4	.2	.1		27.9	13.0	28.0	29.7	28.3	28.4	26.9	29.2	26.5	28.4
W	.8	7.4	7.5	2.0	.2	.1		18.0	12.9	19.5	16.1	16.9	20.1	16.9	17.4	19.8	16.4
NW	.4	2.4	2.4	.5	.1	.0		5.8	12.1	3.7	5.9	6.2	8.7	7.8	6.5	6.0	2.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0	2.5	3.6	5.1	2.3	3.3	3.1	2.8	2.3
TOT OBS	241	1012	1105	249	20	4	2630		12.1	564	225	369	175	486	195	394	222
TOT PCT	9.2	38.5	42.0	9.4	.8	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	1.2	2.6	1.5	.3	*			5.6	13.2	3.7	6.8	8.1	4.2	
NE	1.5	2.9	.9	.3	*			5.6	12.1	6.1	5.1	5.9	5.0	
E	1.9	4.0	1.4	.2	*			7.6	11.9	7.7	6.7	7.5	8.5	
SE	2.2	4.7	1.9	.4	*			9.4	12.3	11.0	9.7	7.9	6.5	
S	4.2	8.7	3.8	.2	*			17.0	11.8	17.4	14.2	15.4	20.6	
SW	4.4	16.1	6.7	.6	.1			27.9	13.0	28.5	28.3	27.5	27.2	
W	3.5	9.8	4.1	.6	.1			18.0	12.9	18.5	17.9	17.0	18.6	
NW	1.3	3.2	1.2	.1	*			5.8	12.1	4.3	7.0	7.4	4.8	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	3.2							3.2	.0	2.8	4.2	3.2	2.6	
TOT OBS	615	1368	568	71	8	2630			12.1	789	344	681	616	
TOT PCT	23.4	52.0	21.6	2.7	.3			100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.8	7.1	37.0	41.8	10.4	.8	.1	12.2	100.0	789
06009	4.2	4.2	37.1	44.3	9.0	.9	.2	12.4	100.0	544
12015	3.2	6.5	39.6	41.4	8.7	.6	.0	11.8	100.0	681
18021	2.6	5.7	40.3	40.9	9.4	.8	.3	12.3	100.0	616
TOT	83	198	1012	1105	248	20	4	12.1		2630
PCT	3.2	6.0	38.5	42.0	9.4	.8	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.4	1.7	3.4		6.0
NE	.4	.2	1.0	4.2		7.0
E	.4	.1	1.0	5.9		7.3
SE	1.0	.3	1.4	5.7		6.7
S	2.0	.5	2.0	11.8		6.7
SW	6.3	2.2	4.3	15.5		5.7
W	7.5	1.7	4.1	4.9		4.3
NW	2.0	.6	1.4	2.2		4.9
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.2	1.7		5.6
TOT OBS	360	102	288	928	1678	5.9
TOT PCT	21.5	6.1	17.2	55.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL
149	299	599	999	1999	3499	4999	6499	7999			OBS
.6	.0	.0	.3	1.9	1.0	.4	.1	.1	.0	2.3	
.8	.1	.4	.9	1.5	.8	.3	.0	.2	*	1.0	
1.7	.1	.7	1.0	1.7	.4	.3	.1	.0	.2	1.2	
3.3	*	.3	.5	1.0	.6	*	.1	.0	.3	2.1	
8.2	.1	.4	.7	1.1	.8	.4	.0	.3	.6	3.8	
10.6	.1	.3	.7	2.2	1.5	.5	.3	.3	.5	11.4	
2.7	.1	.4	.2	1.0	1.2	.5	*	.2	.8	11.0	
1.0	.1	.0	.2	.3	.7	.3	.2	.1	.1	3.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.0	.1	.0	.2	.2	.2	.0	.0	.0	.1	1.0	
503	10	41	80	183	122	44	13	21	42	619	1678
30.0	.4	2.4	4.8	10.9	7.3	2.6	.8	1.3	2.5	36.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.0	3.5	3.7	3.7	3.8	3.8	3.8	3.8
= OR >5000	2.4	4.2	4.4	4.4	4.5	4.6	4.6	4.6
= OR >3500	3.8	6.5	6.9	7.0	7.1	7.2	7.2	7.2
= OR >2000	7.9	12.8	14.0	14.2	14.4	14.5	14.5	14.5
= OR >1000	12.2	21.3	24.3	24.9	25.1	25.3	25.3	25.3
= OR >600	13.4	24.1	28.5	29.3	29.6	30.0	30.0	30.0
= OR >300	13.9	25.2	30.2	31.2	31.7	32.2	32.4	32.4
= OR >150	13.9	25.4	30.6	31.6	32.2	32.7	33.0	33.0
= OR >0	13.9	25.4	31.2	33.5	36.4	41.1	58.5	63.1
TOTAL	235	429	526	565	613	693	986	1064

TOTAL NUMBER OF OBS: 1686

PCT FREQ NH <5/8: 36.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.6	7.2	5.5	3.9	2.0	3.1	3.8	6.2	22.9	27.8	1772

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.1	.2	.5	.5	.4	.1	*	.0	.0	1.9	
	NO PCP	.6	.5	1.3	2.7	7.8	9.7	2.9	.9	.0	1.1	26.9	
	TOT %	.6	.6	1.5	3.2	8.2	9.6	3.1	.9	.0	1.1	28.8	
1/2<1	PCP	.0	.1	.1	.4	.2	.1	*	.0	.0	.1	1.0	
	NO PCP	.7	.2	.5	.4	.7	1.1	.4	.3	.0	.0	3.7	
	TOT %	.7	.3	.6	.7	.9	1.2	.5	.3	.0	.1	4.7	
1<2	PCP	.0	*	.3	.2	*	.1	*	.0	.0	.0	.7	
	NO PCP	.1	.2	.2	.3	.2	.5	.2	.1	.0	.1	1.9	
	TOT %	.1	.2	.5	.5	.2	.6	.2	.1	.0	.1	2.5	
2<5	PCP	.1	.4	.8	.3	.2	.4	*	.0	.0	.0	2.0	
	NO PCP	.7	.4	.4	.5	.7	1.8	.8	.1	.0	.1	5.0	
	TOT %	.7	.7	1.2	.8	.9	2.1	.8	.1	.0	.1	7.0	
5<10	PCP	.7	.4	.4	.4	.3	.7	.2	.1	.0	.0	2.7	
	NO PCP	1.2	1.7	1.9	1.7	3.0	5.4	4.2	1.5	.0	.5	21.1	
	TOT %	1.4	2.1	2.3	2.1	3.3	6.1	4.4	1.6	.0	.5	23.8	
10+	PCP	.0	.1	.1	*	*	.1	.1	.1	.0	.0	.5	
	NO PCP	3.5	1.8	1.4	2.2	3.3	7.9	8.6	2.8	.0	1.1	32.7	
	TOT %	3.5	1.9	1.5	2.2	3.3	8.0	8.8	2.9	.0	1.1	33.2	
TOT OBS													2267
TOT PCT													6.0 5.8 7.7 9.5 16.9 27.6 17.8 5.8 .0 3.0 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.1	.1	.5	.5	.3	.2	.1	.0	1.1	3.0	
	4-10	.3	.5	.7	1.2	3.0	3.5	1.6	.5	.0		11.4	
	11-21	.1	.1	.6	1.3	4.0	4.8	1.0	.2	.0		12.1	
	22+	.0	.0	.1	.3	.8	1.0	.2	*	.0		2.4	
	TOT %	.6	.7	1.5	3.2	8.3	9.6	3.0	.9	.0	1.1	28.8	
1/2<1	0-3	.0	.0	.1	*	.1	*	*	*	.0	.1	.4	
	4-10	.1	.2	.3	.3	.2	.4	.2	.2	.0		1.7	
	11-21	.1	*	.1	.3	.4	.6	.2	.1	.0		1.7	
	22+	*	.1	.1	*	.3	.1	*	*	.0		.6	
	TOT %	.2	.3	.5	.7	.8	1.1	.4	.2	.0	.1	4.4	
1<2	0-3	.0	*	*	*	.0	.0	.0	*	.0	.1	.2	
	4-10	*	*	*	.2	.1	.1	.1	*	.0		.6	
	11-21	.1	.2	.3	.1	.2	.4	.1	*	.0		1.3	
	22+	.0	.0	.1	.2	*	.1	*	.0	.0		.5	
	TOT %	.1	.2	.5	.6	.3	.5	.2	.1	.0	.1	2.5	
2<5	0-3	.0	*	.1	.0	.1	*	.0	.0	.0	.1	.4	
	4-10	.1	.2	.3	.3	.2	.6	.3	*	.0		1.9	
	11-21	.1	.3	.6	.2	.5	1.1	.4	*	.0		3.1	
	22+	.1	.2	.3	.2	.1	.3	.1	.1	.0		1.4	
	TOT %	.3	.8	1.2	.7	.9	2.0	.8	.1	.0	.1	6.8	
5<10	0-3	.1	.1	.1	.1	.3	.1	.1	.2	.0	.5	1.6	
	4-10	.3	.6	.9	.7	1.5	2.2	1.8	.5	.0		8.4	
	11-21	.5	.8	1.1	.9	1.2	2.8	1.5	.4	.0		9.6	
	22+	.5	.4	.2	.2	.7	.8	.2	.2	.0		3.2	
	TOT %	1.4	1.9	2.2	1.9	3.1	5.9	4.3	1.6	.0	.5	22.8	
10+	0-3	.1	.2	.4	.2	.2	.4	.5	.1	.0	1.1	3.2	
	4-10	1.6	.9	.8	1.0	1.9	3.4	2.8	1.2	.0		13.6	
	11-21	1.4	.7	.7	1.0	1.2	4.1	4.6	1.4	.0		15.0	
	22+	.4	.1	*	.1	.1	.5	1.2	.3	.0		2.8	
	TOT %	3.4	1.9	1.9	2.3	3.4	8.4	9.0	3.1	.0	1.1	34.6	
TOT OBS													2462
TOT PCT													5.9 5.8 7.9 9.4 16.8 27.6 17.7 5.9 .0 3.0 100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL 1069	NH <5/8 ANY HGT	TOTAL OBS
00003	28.1	.2	2.9	5.3	10.9	6.6	2.7	1.0	1.4	2.5	61.5	38.5	488
06009	33.6	.3	3.1	4.7	9.7	6.7	3.3	.3	.6	3.6	65.8	34.2	360
12015	28.5	.7	1.7	4.3	10.8	9.3	2.2	.5	1.4	1.2	60.5	39.5	418
18021	29.7	1.1	2.0	4.3	11.5	6.5	2.3	1.1	1.6	2.7	62.8	37.2	444
TOT	509	10	41	80	184	124	44	13	22	42	1069	641	1710
PCT	29.8	.6	2.4	4.7	10.8	7.3	2.6	.8	1.3	2.5	62.5	37.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	29.2	3.9	2.0	6.4	24.2	34.3	749
06009	27.2	5.7	2.9	6.9	20.8	36.6	925
12015	29.3	4.4	2.2	7.0	22.9	34.3	642
18021	29.7	4.0	2.5	6.7	23.4	32.7	999
TOT	728	111	65	169	577	865	2515
PCT	28.9	4.4	2.6	6.7	22.9	34.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSAY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOURL (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	28.3	34.1	44.3	21.2	34.5	481
06009	34.0	38.2	46.1	21.9	32.0	356
12015	29.2	33.8	44.8	20.4	34.8	411
18021	30.4	36.3	46.1	21.7	32.2	438
TOT	510	598	763	359	564	1686
PCT	30.2	35.5	45.3	21.3	33.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
60/64	.0	.0	.1	.1	.1	.0	.1	.1	6	.4
55/59	.0	.0	.0	.1	.3	.3	.6	.5	28	1.8
50/54	.0	.0	.0	.1	.4	1.8	5.5	9.1	266	17.0
45/49	.0	.0	.0	.3	.4	3.8	10.3	27.2	659	42.1
40/44	.0	.0	.0	.0	.2	1.3	7.8	24.3	525	33.5
35/39	.0	.0	.0	.0	.0	.1	.6	4.6	82	5.2
TOTAL	0	0	1	9	23	113	391	1030	1567	100.0
PCT	.0	.0	.1	.6	1.5	7.2	25.0	65.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
60/64	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0
55/59	.0	.2	.2	.4	.8	.3	.1	.0	.0	.0
50/54	.3	.2	.4	1.7	4.4	6.4	2.9	.5	.0	.3
45/49	2.5	1.6	2.9	4.2	6.9	12.1	7.9	2.0	.0	1.9
40/44	2.8	2.9	3.6	2.6	4.8	7.5	6.1	2.1	.0	1.0
35/39	.6	1.0	.7	.5	.5	.6	.5	.3	.0	.4
TOTAL	6.1	5.8	7.8	9.1	17.0	27.6	17.9	5.1	.0	3.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	59	55	53	45	40	38	37	45.5	790
06009	57	54	52	45	38	37	35	44.7	552
12015	64	59	54	46	40	38	37	46.7	690
18021	65	60	55	47	40	38	37	47.4	615
TOT	65	58	54	46	40	38	35	46.1	2647

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.4	1.0	6.8	22.6	69.2	92	483		
06009	.0	.3	.0	4.6	16.6	78.5	94	349		
12015	.0	.8	2.8	9.9	28.2	58.3	90	393		
18021	.0	1.1	1.9	7.3	32.3	57.4	90	371		
TOT	0	10	23	115	398	1050	91	1596		

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TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	WD FOG
20/72	.0	.0	.0	.0	.0	.0	.0	.0	*	1	*	.0
17/19	.0	.0	.0	.0	.0	*	.1	*	.0	4	*	.1
14/16	.0	.0	.0	.0	.1	.1	.1	*	.0	9	.1	.3
11/13	.0	.0	.1	.1	.3	.4	.3	*	.0	27	.5	.8
9/10	.0	.0	.1	.8	1.0	.3	*	*	.0	50	.7	1.8
7/8	.0	.0	.7	2.6	2.3	.9	.1	.0	.0	133	2.5	4.0
6	.0	.1	1.6	3.1	2.1	.6	*	*	.0	156	2.8	4.9
5	.0	.2	2.2	4.3	2.9	.5	.0	.0	.0	206	4.2	6.0
4	.0	.7	3.2	5.0	2.1	.2	.0	.0	.0	241	3.4	7.9
3	.0	1.1	4.2	5.3	2.4	.4	*	.0	.0	272	4.8	8.6
2	.0	1.2	4.7	5.7	1.2	.9	.0	.0	.0	265	4.3	8.8
1	.0	2.0	4.4	3.3	1.5	.2	.0	.0	.0	232	4.6	6.8
0	*	1.4	3.8	3.0	1.2	.3	*	.0	.0	201	3.0	6.9
-1	.0	1.1	1.6	1.8	.6	.1	.0	.0	.0	105	2.6	2.6
-2	*	.8	1.2	.5	.3	*	.0	.0	.0	60	1.0	1.9
-3	*	.5	.5	.2	.2	.0	.0	.0	.0	31	.5	1.0
-4	.0	.5	.2	.1	*	.0	.0	.0	.0	19	.4	.5
-5	.0	.1	.1	.4	*	.0	.0	.0	.0	14	.3	.3
-6	.0	*	*	.2	.0	.0	.0	.0	.0	6	.2	*
-7/-8	.0	.0	.1	.2	.0	.0	.0	.0	.0	8	.0	.4
-9/-10	.0	*	*	*	.0	.0	.0	.0	.0	3	*	.1
TOTAL	3	200	592	749	371	94	18	6	1	2033	736	1297
PCT	.1	9.8	29.1	36.8	18.2	4.6	.9	.3	*	100.0	36.2	63.8

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.5	.4	.0	.0	.0	.0	.0	.4
1-2	.1	.9	.5	.0	.0	.0	1.6	*	1.4	.2	.0	.0	.0	1.7
3-4	.0	.8	.8	.0	.0	.0	1.6	.0	.6	.6	.2	.0	.0	1.4
5-6	.0	.4	.5	.1	.0	.0	1.0	.0	.2	.4	.4	.0	.0	.9
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.4	2.0	.5	.0	.0	5.2	.4	2.3	1.5	.6	.0	.0	4.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.7	.4	.0	.0	.0	.0	.6
1-2	.7	.6	.5	.0	.0	.0	1.9	.4	.7	.8	.0	.0	.0	1.9
3-4	.0	.5	1.7	.0	.0	.0	2.1	.0	.1	1.6	.0	.0	.0	1.8
5-6	.0	.2	.4	.8	.4	.0	1.7	.0	*	.4	*	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.2	.0	.0	.4
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.2	*	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.0	2.6	1.1	.4	.0	6.8	.6	1.2	3.4	.6	.0	.0	5.9

PERIOD: (OVER-ALL) 1963-1971

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.3	.0	.0	.0	.6	.0	1.4	.2	.0	.0	.0	1.6
1-2	.8	1.7	1.7	.0	.0	.0	4.2	.9	4.3	1.8	.0	.0	.0	6.5
3-4	.0	2.3	3.5	.4	.0	.0	6.2	.0	4.0	9.7	.0	.0	.0	13.7
5-6	.0	.5	2.4	.5	.0	.0	3.4	.0	.5	5.0	1.2	.0	.0	6.7
7	.0	.0	1.3	.2	.0	.0	1.4	.0	.4	3.2	.4	.0	.0	4.0
8-9	.0	.1	.0	.4	.0	.0	.5	.0	.0	.5	.8	.0	.0	1.3
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.7	9.1	1.5	.0	.0	16.5	.5	10.5	20.5	2.8	.0	.0	34.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.6	.0	.0	.0	.0	.6	.2	.4	.0	.0	.0	.0	.5	
1-2	.3	2.1	1.6	.0	.0	.0	4.1	.0	.9	.6	.0	.0	.0	1.4	
3-4	.0	1.7	4.8	.7	.0	.0	7.2	.0	.2	.2	.2	.0	.0	.6	
5-6	.0	.4	2.0	.7	.0	.0	3.1	.0	.0	.9	.0	.0	.0	.9	
7	.0	.2	1.2	.5	.0	.0	1.8	.0	.2	.5	.4	.0	.0	1.1	
8-9	.0	.0	.3	.3	.0	.0	.6	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	5.0	9.9	2.6	.0	.0	17.8	.2	1.6	2.2	.9	.0	.0	4.9	96.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.6	3.7	.5	.0	.0	.0	9.9	
1-2	3.9	12.9	7.6	.0	.0	.0	24.3	
3-4	.0	10.1	22.4	1.4	.0	.0	33.9	
5-6	.0	2.1	11.6	3.7	.4	.0	17.8	
7	.0	.7	7.1	1.6	.0	.0	9.3	
8-9	.0	.2	.9	1.9	.0	.0	3.0	
10-11	.0	.0	.0	1.1	.0	.0	1.1	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.5	29.6	50.1	10.4	.4	.0	100.0	567

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	11.9	18.6	8.3	7.8	.9	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	620	3
6-7	.4	1.9	7.8	7.5	5.1	.9	.9	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	350	5
8-9	.0	.5	2.2	2.4	2.7	.9	.5	.4	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	6
10-11	.0	.3	.6	.5	.5	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	5
12-13	.0	.0	.4	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
>13	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
INDET	4.0	4.9	3.5	2.6	1.6	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	237	3
TOTAL	86	272	460	296	180	47	23	12	6	8	1	0	0	0	0	0	0	0	0	1391	4
PCT	6.2	19.6	33.1	21.3	12.9	3.4	1.7	.9	.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1874-1970

JULY

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGD W0 PCPN	FGD W0 PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	7.8	1.4	4.1	.0	.0	.0	.0	13.3	.0	.0	21.8	.0	.0	.0	64.8
NE	9.7	2.2	3.5	.0	.0	.0	.0	15.4	2.2	.0	25.1	.3	2.2	.0	55.0
E	10.0	1.5	1.8	.0	.0	.0	.0	13.3	2.5	.0	33.1	.5	.5	.0	50.0
SE	11.1	.7	4.4	.0	.0	.0	.0	15.6	.4	.5	51.1	.7	1.2	.0	31.0
S	5.0	1.9	3.0	.0	.0	.0	.0	9.9	1.1	.7	55.3	.9	1.9	.0	30.5
SW	3.9	.7	.9	.0	.0	.0	.0	5.3	.7	.0	49.6	1.4	2.2	.0	40.9
W	1.3	.1	2.1	.0	.0	.0	.0	3.5	.0	.0	33.2	1.0	1.3	.3	60.7
NW	3.3	1.0	1.5	.0	.0	.0	.0	5.9	.0	.0	26.2	1.0	.0	.0	66.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	2.0	.0	.0	.0	.0	2.0	.0	.0	39.2	2.0	3.9	.0	52.9
TOT PCT	5.0	1.0	2.2	.0	.0	.0	.0	8.0	.7	.2	43.7	1.0	1.6	*	44.8
TOT OBS:	2139														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	5.5	1.1	2.3	.0	.0	.0	.0	8.7	.3	.2	43.5	.6	1.4	.0	45.3
06009	5.1	.6	2.8	.0	.0	.0	.0	8.3	1.0	.2	38.5	.8	1.4	.0	49.7
12015	4.5	.9	1.5	.0	.0	.0	.0	6.9	.7	.0	48.2	1.9	2.4	.0	39.9
18021	4.4	1.2	2.4	.0	.0	.0	.0	7.9	1.0	.4	44.0	.6	1.2	.2	45.0
TOT PCT TOT OBS:	4.9 2178	1.0	2.2	.0	.0	.0	.0	8.0	.7	.2	43.7	1.0	1.6	*	44.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	1.9	1.2	.1	.0	.0		3.3	10.1		2.8	2.8	3.4	3.9	4.3	2.1	3.7	3.2
NE	.1	1.8	1.7	.4	.0	.0		4.0	12.1		4.5	1.8	3.9	5.7	4.6	4.8	3.6	2.7
E	.6	2.6	2.5	.4	.0	.0		6.1	10.9		7.4	6.3	6.5	4.4	5.2	4.4	6.4	6.9
SE	.8	4.3	3.2	.6	.0	.0		8.8	10.9		8.5	5.7	7.7	8.8	9.8	8.3	11.4	8.8
S	1.0	9.3	9.4	1.3	*	.0		20.9	11.7		19.4	18.0	20.6	22.4	21.8	20.9	24.6	19.3
SW	1.3	14.7	13.5	1.5	.1	.0		31.1	11.5		31.3	36.5	30.4	26.3	31.7	32.9	26.5	36.3
W	1.4	7.5	7.9	1.1	*	.0		18.0	11.2		18.9	19.3	18.7	21.3	15.1	18.9	17.5	16.4
NW	.4	2.5	1.8	.0	*	.0		4.7	9.8		4.5	6.4	4.9	5.1	3.8	5.6	4.0	5.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9							2.9	.0		2.6	3.2	4.0	2.2	3.8	2.1	2.4	1.0
TOT OBS	217	1122	1036	136	6	0	2517		11.0		533	222	379	180	450	187	369	197
TOT PCT	8.6	44.6	41.2	5.4	.2	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.9	2.0	.4	*	.0			3.3	10.1		2.8	3.5	3.7
NE	.9	2.1	.9	.1	.0			4.0	12.1		3.7	4.5	4.7
E	1.8	3.3	1.0	*	.0			6.1	10.9		7.1	5.9	4.9
SE	2.3	4.8	1.5	.1	.0			8.8	10.9		7.7	8.1	9.3
S	4.4	12.1	4.4	.1	.0			20.9	11.7		19.0	21.2	21.5
SW	6.6	18.6	5.5	.4	.0			31.1	11.5		32.8	29.1	32.1
W	4.2	10.6	3.0	.1	*			18.0	11.2		19.0	19.5	18.2
NW	1.4	3.1	.2	*	.0			4.7	9.8		5.1	5.0	4.3
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0
CALM	2.9							2.9	.0		2.8	3.4	3.3
TOT OBS	640	1427	425	24	1	2517		11.0			755	559	637
TOT PCT	25.4	56.7	16.9	1.0	*			100.0			100.0	100.0	100.0

PERIOD: (PRIMARY) 1932-1970
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JULY

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.8	6.6	44.2	42.1	4.1	.1	.0	10.6	100.0	755
06009	3.4	6.3	42.9	42.2	5.0	.2	.0	11.0	100.0	559
12015	3.3	5.5	47.3	37.7	6.1	.2	.0	10.8	100.0	637
18021	1.9	4.4	43.6	42.8	6.7	.5	.0	11.6	100.0	566
TOT	72	145	1122	1036	136	6	0	11.0		2517
PCT	2.9	5.8	44.6	41.2	5.4	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	.4	.9	2.1		5.8
NE	.4	.2	1.0	2.4		6.7
E	.4	.2	1.1	5.4		7.2
SE	.5	.6	.9	6.8		7.0
S	1.8	.8	2.6	16.4		7.0
SW	6.9	1.2	4.2	17.3		5.9
W	7.1	1.5	2.5	7.0		4.5
NW	1.6	.4	.6	1.6		4.6
VAR	.0	.0	.0	.0		.0
CALM	.6	.2	.6	1.2		5.4
TOT OBS	325	89	233	976	1623	6.0
TOT PCT	20.0	5.5	14.4	60.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

THE OCCURRENCE OF WIND DURING THE MONTH OF APRIL 1976 BY WIND DIRECTION												
	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.5	.0	*	.5	.7	.6	.2	.0	.1	*	1.4	
NE	.8	.0	.2	.3	.3	.5	.3	.1	.2	.0	1.3	
E	1.8	.1	.4	.7	1.5	.9	.1	.1	*	.0	1.5	
SE	4.0	.2	.3	.7	1.2	.6	.2	*	*	.1	1.7	
S	11.8	.1	.7	1.2	1.7	1.0	.6	.0	.1	.2	4.1	
SW	12.3	.7	.6	1.2	2.0	.9	.4	.2	.4	.9	10.6	
W	4.7	.2	.3	.5	.7	.6	.4	.1	.1	.5	10.0	
NW	.9	.0	*	.2	.4	.4	*	.0	.0	.2	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.6	.0	.0	.1	.1	.1	.1	.1	.0	.1	1.2	
TOT OBS	606	11	41	89	138	90	37	10	16	34	551	1623
TOT PCT	37.3	.7	2.5	5.5	8.5	5.5	2.3	.6	1.0	2.1	33.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.3	2.8	2.8	2.9	2.9	2.9	3.0	3.1
>5000	1.6	3.3	3.4	3.5	3.6	3.6	3.6	3.7
>3500	2.5	5.5	5.7	5.8	5.8	5.8	5.9	5.9
>2000	4.5	10.7	11.1	11.2	11.3	11.3	11.3	11.5
>1000	7.5	17.0	18.6	19.2	19.6	19.6	19.8	19.9
>600	8.8	20.7	23.4	24.1	24.8	24.8	25.2	25.3
>300	9.2	21.7	25.0	26.2	27.2	27.3	27.7	27.8
>150	9.2	21.7	25.1	26.4	27.4	27.7	28.4	28.5
>0	9.3	22.0	25.9	28.2	31.2	36.6	59.1	66.0
TOTAL	151	359	422	460	509	597	964	1076

TOTAL NUMBER OF OBS: 1631

PCT FREQ NH <5/8: 34.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.8	5.9	5.9	2.9	1.7	2.1	4.5	4.0	19.4	35.9	1682

JULY

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1874-1970AREA 0005 PLACENTIA BAY SOUTH
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	.1	.3	.9	1.0	.3	.0	.0	*	2.6	
	NO PCP	.4	.6	1.6	4.0	10.0	11.8	4.3	.8	.0	.7	34.3	
	TOT %	.4	.7	1.7	4.3	10.9	12.9	4.6	.8	.0	.7	37.0	
1/2<1	PCP	*	*	.1	.2	.2	.7	*	.1	.0	.0	.8	
	NO PCP	.1	.1	.2	.2	.6	1.4	.5	.3	.0	.1	3.5	
	TOT %	.7	.7	.2	.4	.8	1.6	.5	.4	.0	.1	4.4	
1<2	PCP	.0	*	.1	*	.3	*	.1	*	.0	.0	.5	
	NO PCP	*	.1	.2	.1	.5	.9	.3	.0	.0	.0	2.2	
	TOT %	*	.2	.3	.2	.8	.9	.4	*	.0	.0	2.8	
2<5	PCP	.7	.1	.2	.2	.3	.7	.1	.0	.0	.0	1.2	
	NO PCP	.1	.1	.2	.2	1.1	1.3	.7	*	.0	.1	3.8	
	TOT %	.9	.7	.4	.4	1.4	1.8	.7	*	.0	.1	5.0	
5<10	PCP	.3	.5	.4	.5	.4	.7	.1	.2	.0	.0	2.3	
	NO PCP	.9	1.5	1.8	1.5	4.0	6.7	4.3	1.1	.0	.6	22.3	
	TOT %	1.7	2.0	2.2	2.0	4.4	6.9	4.4	1.3	.0	.6	25.0	
10+	PCP	.0	*	.1	.1	.1	*	.0	.0	.0	.0	.4	
	NO PCP	1.3	1.1	1.7	1.5	3.1	7.1	7.0	2.0	.0	.7	25.5	
	TOT %	1.3	1.1	1.7	1.6	3.2	7.1	7.0	2.0	.0	.7	25.9	
TOT OBS													2134
TOT PCT													3.4 4.3 6.4 8.9 21.4 30.9 17.7 4.6 .0 2.4 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	.3	.4	.3	.5	.4	.1	.0	.8	2.9	
	4-10	.3	.4	.8	2.2	4.1	5.9	2.0	.5	.0		16.2	
	11-21	.1	.2	.4	1.2	5.2	5.4	2.4	.2	.0		15.2	
	22+	.0	.0	.1	.2	.6	.7	*	.0	.0		1.7	
	TOT %	.4	.7	1.6	4.0	10.3	12.6	4.8	.8	.0	.8	35.9	
1/2<1	0-3	*	*	.0	*	*	*	.1	.0	.0	.1	.4	
	4-10	.1	*	.1	.1	.4	.4	.1	.2	.0		1.5	
	11-21	*	.1	.1	.1	.2	.9	.2	.1	.0		1.7	
	22+	.0	.1	.0	.1	.2	.1	*	.0	.0		.5	
	TOT %	.1	.2	.2	.4	.8	1.5	.5	.4	.0	.1	4.1	
1<2	0-3	.0	.0	.0	.0	*	*	*	.0	.0	*	.1	
	4-10	*	.1	*	.1	.4	.4	.2	.0	.0		1.1	
	11-21	.0	*	.2	.1	.3	.4	.2	*	.0		1.3	
	22+	.0	.1	*	.0	.1	*	.0	.0	.0		.2	
	TOT %	*	.1	.2	.1	.8	.9	.5	*	.0	*	2.8	
2<5	0-3	.0	.0	.0	.0	*	*	.1	.0	.0	.2	.3	
	4-10	.1	.3	*	.1	.4	.5	.3	*	.0		1.7	
	11-21	.2	*	.2	.3	.9	1.1	.5	*	.0		3.2	
	22+	*	*	*	.0	.0	.1	*	.0	.0		.2	
	TOT %	.3	.3	.3	.4	1.3	1.7	.9	*	.0	.2	5.5	
5<10	0-3	*	*	.3	.1	.1	.2	.3	.1	.0	.6	1.8	
	4-10	.5	.6	.7	.8	1.9	3.3	2.0	.7	.0		10.4	
	11-21	.5	1.1	.9	.8	1.6	3.0	1.8	.4	.0		10.1	
	22+	*	.2	.2	.3	.5	.4	.3	*	.0		1.9	
	TOT %	1.1	1.9	2.0	2.0	4.2	6.9	4.4	1.2	.0	.6	24.3	
10+	0-3	.1	.0	.1	.2	.3	.2	.3	.1	.0	.9	2.3	
	4-10	.9	.6	.9	1.0	2.0	3.8	3.0	1.0	.0		13.3	
	11-21	.5	.4	.7	.6	1.3	3.1	3.2	1.1	.0		10.8	
	22+	*	.1	.1	.1	*	.3	.6	.0	.0		1.2	
	TOT %	1.5	1.0	1.7	1.8	3.6	7.4	7.2	2.3	.0	.9	27.5	
TOT OBS													2346
TOT PCT													3.5 4.2 6.1 8.7 21.0 31.0 18.2 4.7 .0 2.6 100.0

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1874-1970

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	100 299	300 599	600 999	1000 1999	2000 3499	3000 4999	5000 6499	6000 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	37.1	.2	1.5	5.3	9.3	4.9	1.5	.6	1.3	1.3	62.9	37.1	472
06009	33.7	.8	1.3	6.0	7.5	7.3	3.1	.5	.8	1.8	62.7	37.3	386
12015	41.6	.8	2.8	5.8	8.9	4.1	2.5	.5	1.0	2.3	70.3	29.7	394
18021	35.7	1.0	4.4	4.7	7.6	5.7	2.0	.7	.7	3.0	65.5	34.5	406
TOT	614	11	41	90	139	90	37	10	16	34	1082	576	1658
PCT	37.0	.7	2.5	5.4	8.4	5.4	2.2	.6	1.0	2.1	65.3	34.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	36.5	4.4	2.3	3.5	26.7	26.7	709
06009	33.3	2.7	2.4	4.9	26.0	30.6	549
12015	40.0	3.9	4.2	5.6	21.0	25.3	590
18021	34.0	5.0	2.4	8.1	23.2	27.4	544
TOT	863	96	67	129	582	655	2392
PCT	36.1	4.0	2.8	5.4	24.3	27.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	37.4	42.0	49.4	16.7	34.0	462
06009	34.2	37.9	47.0	18.5	34.5	383
12015	43.0	49.5	59.1	16.1	24.7	384
18021	36.1	43.0	52.5	16.9	30.6	402
TOT	614	702	846	278	507	1631
PCT	37.6	43.0	51.9	17.0	31.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
70/74	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
65/69	.0	.0	.0	.0	.0	.3	.3	.6	18	1.2
60/64	.0	.0	.1	.1	.5	1.1	3.6	6.5	175	11.8
55/59	.0	.0	.0	.0	.3	2.5	11.8	24.1	575	38.6
50/54	.0	.0	.0	.0	.0	.9	8.8	28.5	569	38.2
45/49	.0	.0	.0	.0	.1	.1	1.1	8.6	147	9.9
40/44	.0	.0	.0	.0	.0	.0	.1	.1	3	.2
TOTAL	0	0	1	1	13	71	384	1019	1489	100.0
PCT	.0	.0	.1	.1	.9	4.8	25.8	68.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
70/74	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
65/69	.0	.0	.0	.0	.3	.8	.2	.0	.0	.0
60/64	.4	.2	.4	.7	2.9	4.4	2.1	.4	.0	.3
55/59	.8	1.3	2.2	3.4	8.6	12.5	7.4	1.7	.0	.7
50/54	1.3	2.0	2.9	3.3	7.3	11.1	7.7	1.6	.0	.9
45/49	.7	.9	.6	.8	1.6	2.7	1.6	.7	.0	.2
40/44	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
TOTAL	3.2	4.4	6.2	8.2	20.7	31.7	19.1	4.3	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	67	65	61	54	47	46	43	54.1	761
06009	65	63	61	54	47	46	45	53.9	567
12015	70	67	63	55	48	45	40	55.2	638
18021	76	69	65	56	49	46	42	56.5	568
TOT	76	66	62	55	48	46	40	54.9	2534

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.2	2.7	24.1	72.9	93	473
06009	.0	.0	.0	1.2	23.5	75.3	94	340
12015	.0	.0	.6	7.4	25.6	66.4	92	363
18021	.0	.6	3.0	9.2	30.8	56.5	90	338
TOT	0	2	13	75	391	1033	93	1514

JULY

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1874-1970AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.1	.0
17/19	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.1	.0
14/16	.0	.0	.0	.0	.1	.2	.0	.1	.0	6	.1	.3
11/13	.0	.0	.1	.2	.7	.4	.1	.2	.0	30	.8	.8
9/10	.0	.1	.5	.8	.9	.6	.1	.0	.0	56	1.4	1.4
7/8	.0	.2	1.2	2.1	2.5	.7	.6	.0	.0	145	3.9	3.5
6	.1	.2	1.0	1.9	2.0	.8	.1	.0	.0	117	2.3	3.7
5	.0	.2	2.1	3.5	2.2	.9	.1	.0	.0	175	4.9	4.0
4	.0	.6	2.9	4.6	2.9	.8	.0	.0	.0	230	5.6	6.1
3	.0	.7	2.7	4.8	3.3	.5	.1	.0	.0	233	4.7	7.2
2	.0	.9	4.3	4.9	3.0	.6	.1	.0	.0	269	5.9	7.8
1	.1	1.0	4.2	4.8	2.8	.9	.2	.0	.0	263	6.1	7.3
0	.0	1.1	2.6	3.4	2.1	.4	.0	.0	.0	188	4.1	5.5
-1	.1	.4	1.4	1.7	.8	.1	.0	.0	.0	87	1.9	2.6
-2	.1	.5	1.4	.7	.6	.2	.0	.0	.0	64	1.3	1.9
-3	.0	.3	.9	.4	.1	.1	.0	.0	.0	32	.7	1.0
-4	.0	.1	.4	.4	.0	.0	.1	.0	.0	17	.4	.5
-5	.0	.2	.2	.2	.3	.0	.0	.0	.0	17	.3	.6
-6	.1	.3	.1	.1	.0	.0	.0	.0	.0	9	.1	.4
-7/-8	.0	.0	.1	.2	.1	.1	.0	.0	.0	8	.3	.1
-9/-10	.0	.1	.1	.2	.1	.0	.0	.0	.0	6	.2	.2
-14/-16	.0	.0	.1	.1	.0	.0	.0	.0	.0	3	.1	.1
TOTAL	6	125	511	679	477	130	23	5	1	1957	882	1075
PCT	.3	6.4	26.1	34.7	24.4	6.6	1.2	.3	.1	100.0	45.1	54.9

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	N 22-33	34-47	48+	PCT	1-3	4-10	11-21	NE 22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.6	.0	.0	.0	.0	.6
1-2	.1	.0	.1	.0	.0	.0	.3	.0	.3	.2	.0	.0	.0	.3
3-6	.0	.2	.7	.0	.0	.0	.9	.0	.2	.7	.0	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.5	.8	.0	.0	.0	1.3	.8	1.1	1.2	.6	.0	.0	3.0

HGT	1-3	4-10	11-21	E 22-33	34-47	48+	PCT	1-3	4-10	11-21	SE 22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4	.2	.2	.0	.0	.0	.0	.4
1-2	.0	.7	.1	.0	.0	.0	.8	.4	2.1	.3	.0	.0	.0	2.9
3-6	.2	.6	.7	.2	.0	.0	1.6	.0	1.0	1.3	.2	.0	.0	2.7
5-6	.0	.0	.6	.3	.0	.0	1.1	.0	.8	.9	.2	.0	.0	1.2
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.5	2.1	.8	.0	.0	4.8	.6	3.3	3.4	.9	.0	.0	8.2

PERIOD: (OVER-ALL) 1963-1970

JULY

TABLE 18 (CONT)

AREA 0005 PLACENTIA BAY SOUTH
46.0N 56.3W

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.4	.0	.0	.0	.0	1.7	.4	2.7	.4	.0	.0	.0	3.7
1-2	.0	3.2	1.1	.0	.0	.0	4.2	.0	4.8	2.4	.0	.0	.0	7.3
3-4	.0	3.1	5.3	.1	.0	.0	8.6	.2	4.7	8.9	.4	.0	.0	14.3
5-6	.0	.8	3.2	.4	.0	.0	4.4	.0	.9	4.6	1.0	.0	.0	6.3
7	.0	.0	1.7	.7	.0	.0	2.4	.0	.6	2.3	.3	.0	.0	3.4
8-9	.0	.0	.5	.1	.0	.0	.7	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.7	.0	.0	.7	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	8.5	11.8	2.0	.0	.0	22.6	.8	13.7	19.2	2.0	.0	.0	35.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	.7	.0	.0	.0	.0	1.0	.0	.9	.0	.0	.0	.0	.9	
1-2	.1	2.3	1.3	.0	.0	.0	3.8	.0	.9	.0	.0	.0	.0	.9	
3-4	.0	3.6	3.9	.4	.0	.0	7.8	.0	1.1	.9	.0	.0	.0	1.1	
5-6	.0	.7	4.2	.3	.0	.0	5.3	.0	.2	.6	.0	.0	.0	.8	
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.3	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	7.3	10.6	.7	.2	.0	19.3	.0	1.3	1.6	.0	.0	.0	2.9	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	6.2	.4	.0	.0	.0	10.5	
1-2	.8	14.1	5.8	.0	.0	.0	20.7	
3-4	.4	13.5	22.6	1.3	.0	.0	37.8	
5-6	.0	2.6	14.3	7.4	.0	.0	19.4	
7	.0	.6	6.6	1.3	.0	.0	8.5	
8-9	.0	.0	.9	.9	.2	.0	2.1	
10-11	.0	.0	.2	.8	.0	.0	.9	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.1	37.0	50.8	7.0	.2	.0	100.0	532

PERIOD: (OVER-ALL) 1969-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-96	87+	TOTAL	MEAN HGT
<6	2.1	12.3	24.6	8.6	2.4	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	705	1
6-7	.1	1.7	7.7	7.5	6.0	1.2	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	347	5
8-9	.0	.2	1.6	1.7	1.6	1.4	.4	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	99	6
10-11	.0	.4	.2	.4	.7	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	6
12-13	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
>13	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
INDET	4.0	3.2	4.0	2.4	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	198	3
TOTAL	86	247	533	288	148	49	20	5	4	1	0	0	0	0	0	0	0	0	0	1391	4
PCT	6.2	17.8	38.3	20.7	11.4	3.5	1.4	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1870-1970AREA 0005 PLACENTIA RAY SOUTH
49.7N 94.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.3	1.4	4.4	.0	.0	.0	.0	10.1	.0	.0	7.6	.0	.0	.0	82.3
NE	10.9	.9	7.0	.0	.0	.0	.0	18.8	1.8	.0	14.2	1.3	.7	.0	63.7
E	11.5	1.4	9.2	.0	.0	.0	.0	20.9	.3	.0	25.7	.9	.5	.0	51.6
SE	7.9	2.7	1.9	.0	.0	.0	.0	12.5	2.6	.5	27.1	2.7	2.4	.0	52.2
S	7.9	1.6	4.4	.0	.0	.0	.0	12.9	2.7	.2	34.6	.8	2.1	.0	46.7
SW	2.9	1.0	1.5	.0	.0	.0	.0	5.4	.6	.5	37.8	1.2	2.6	.0	51.9
W	1.2	.6	1.3	.0	.0	.0	.0	3.1	1.0	.1	23.5	1.0	3.0	.0	68.3
NW	.7	.3	3.2	.0	.0	.0	.7	4.9	.7	.0	7.5	.7	.7	.0	85.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2	2.2	4.3	.0	.0	.0	.0	8.7	.0	.0	39.1	2.2	2.2	.0	67.8
TOT PCT	4.8	1.2	3.1	.0	.0	.0	*	8.8	1.2	.3	28.0	1.1	2.1	.0	58.6
TOT OBS:	2371														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	5.2	1.5	4.1	.0	.0	.0	.1	10.8	1.0	.3	28.0	.9	1.9	.0	57.1
0600	5.2	1.0	3.6	.0	.0	.0	.0	9.5	1.4	.8	25.0	1.2	1.2	.0	60.8
1200	3.8	1.0	1.5	.0	.0	.0	.0	5.8	1.5	.0	30.3	1.2	3.1	.0	58.1
1800	4.8	1.3	2.9	.0	.0	.0	.0	8.7	1.0	.0	28.1	1.4	1.9	.0	58.9
TOT PCT TOT OBS	4.7 2406	1.2	3.0	.0	.0	.0	*	8.7	1.2	.2	28.0	1.2	2.1	.0	58.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.6	2.0	1.8	.5	.1	.0		5.0	11.8	4.3	4.2	6.1	7.6	5.4	4.4	4.9	3.3	
NE	.4	2.0	2.3	.5	.0	.0		5.2	11.9	6.0	6.8	4.8	3.8	5.0	6.6	4.0	5.5	
E	.8	3.2	2.9	.4	.0	.0		6.9	10.4	7.0	7.2	7.2	4.4	6.5	5.9	7.2	8.7	
SE	.5	4.0	3.5	.4	.1	.0		8.5	11.2	8.3	7.1	8.8	8.5	7.3	10.1	9.5	9.0	
S	1.2	7.4	7.3	.9	.1	.0		16.9	11.6	16.6	20.0	15.4	18.8	16.9	16.2	16.3	17.9	
SW	1.2	10.8	17.6	2.1	.0	.0		26.7	12.4	27.5	23.6	27.8	22.9	28.7	23.2	28.4	28.0	
W	1.0	8.4	10.4	1.4	.0	.0		21.2	12.3	21.0	20.7	21.8	21.8	20.7	21.8	21.5	20.9	
NW	.4	2.9	3.0	.5	.1	.0		6.9	12.4	6.5	6.8	6.9	9.7	7.7	7.7	6.3	5.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.7							2.7	.0	2.8	3.6	1.2	2.4	3.8	4.1	1.9	2.2	
TOT OBS	258	1184	1764	193	14	0	2913		11.6	600	227	434	170	555	222	480	220	
TOT PCT	8.9	40.6	43.4	6.6	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40								00	06	12	18
N	1.4	2.3	1.0	.2	.0				5.0	11.8		4.2	6.3	5.1	4.4
NE	1.3	2.7	1.1	.1	.0				5.2	11.9		6.2	4.5	5.4	4.5
E	2.1	3.8	.9	.1	.0				6.9	10.4		7.1	6.4	6.3	7.7
SE	2.2	4.9	1.3	.1	.0				8.5	11.2		8.0	8.7	8.1	9.4
S	3.6	10.0	3.1	.2	.0				16.9	11.6		17.3	16.4	16.7	16.8
SW	4.7	15.5	5.9	.6	.0				26.7	12.4		26.5	26.4	25.7	28.3
W	4.4	11.9	4.6	.4	.0				21.2	12.3		21.0	21.8	21.0	21.1
NW	1.3	3.9	1.5	.3	.0				6.9	12.4		6.5	7.7	7.7	5.8
VAR	.0	.0	.0	.0	.0				.0	.0		.0	.0	.0	.0
CALM	2.7								2.7	.0		3.0	1.5	3.9	2.0
TOT OBS	691	1602	564	53	1		2913			11.6		822	604	777	710
TOT PCT	23.7	55.0	19.4	1.9	.0				100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1870-1970

AUGUST

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			46+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.0	5.6	40.8	45.0	5.2	.4	.0	11.4	100.0	822
0600	1.5	6.0	40.7	45.0	6.3	.5	.0	11.7	100.0	604
1200	3.9	8.4	42.2	39.3	5.9	.4	.0	10.9	100.0	777
1800	2.0	4.6	38.7	44.6	9.3	.7	.0	12.5	100.0	710
TOT	78	180	1184	1264	193	14	0	11.6		2913
PCT	2.7	6.2	40.6	43.4	6.6	.5	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	.5	1.1	2.0		5.5
NE	.8	.3	1.0	2.8		6.3
E	.7	.1	1.0	4.2		6.9
SE	.9	.6	1.4	5.3		6.6
S	2.6	1.1	3.2	10.2		6.3
SW	6.8	2.5	5.3	13.4		5.5
W	8.2	3.3	4.2	6.6		4.3
NW	2.4	1.0	1.4	1.7		4.2
VAR	.0	.0	.0	.0		.0
CALM	.4	.3	.6	1.1		5.9
TOT OBS	451	186	362	898	1897	5.5
TOT PCT	23.8	9.8	19.1	47.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.3	.0	.1	.4	1.0	.5	.1	.1	.0	.1	2.0	
NE	.6	.1	.1	.8	.9	.7	.1	.0	.1	.2	1.4	
E	1.4	.1	.3	.9	.9	.7	.3	.1	.0	.3	1.2	
SE	1.8	.1	.2	.7	1.3	.9	.3	.0	.1	.1	2.5	
S	5.2	.2	.5	1.4	1.8	1.1	.4	.1	.3	.6	5.6	
SW	8.0	.2	.6	1.1	2.6	1.0	.5	.1	.3	.6	13.1	
W	3.6	.1	.3	1.2	1.8	.7	.4	.1	.1	.4	13.7	
NW	.4	.0	.0	.4	.5	.5	.1	.1	.0	.1	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.2	.2	.2	.2	.0	.0	.0	.1	1.1	
TOT OBS	414	14	42	132	210	120	41	11	17	44	852	1897
TOT PCT	21.8	.7	2.2	7.0	11.1	6.3	2.2	.6	.9	2.3	44.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.1	2.9	3.0	3.1	3.1	3.1	3.1	3.1
>1000	2.5	3.4	3.6	3.6	3.6	3.7	3.7	3.7
>3500	3.7	5.3	5.6	5.8	5.8	5.9	5.9	5.9
>2000	6.6	10.8	11.6	11.9	12.0	12.2	12.2	12.3
>1000	11.0	19.5	21.7	22.4	22.7	23.0	23.3	23.3
>600	13.6	24.5	27.8	28.8	29.4	29.8	30.3	30.3
>300	14.1	25.5	29.4	30.5	31.3	31.9	32.4	32.4
>150	14.1	25.8	29.9	31.3	32.1	32.6	33.2	33.2
>0	14.2	26.3	31.0	33.4	35.9	40.0	52.0	54.9
TOTAL	268	498	587	633	679	758	984	1039

TOTAL NUMBER OF OBS: 1893

PCT FREQ NH <5/8: 45.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	18.4	8.6	8.8	4.6	3.8	3.3	4.8	5.6	21.5	20.2	1991

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1870-1970

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AREA 0005 PLACENTIA BAY SOUTH
43.9N 54.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.1	*	.1	.4	.4	.2	*	.0	.1	1.4	
	NO PCP	.2	.4	1.1	1.4	4.1	7.2	3.4	.3	.0	.5	18.7	
	TOT %	.2	.4	1.1	1.5	4.5	7.7	3.6	.3	.0	.6	20.1	
1/2<1	PCP	*	*	.1	*	.3	.2	.1	*	.0	.0	.8	
	NO PCP	.1	.1	.1	.4	.8	1.2	.6	*	.0	*	3.4	
	TOT %	.1	.1	.3	.4	1.1	1.4	.6	.1	.0	*	4.1	
1<2	PCP	*	.1	.2	.1	.2	.2	*	*	.0	.0	.9	
	NO PCP	.0	.1	.1	.3	.4	.8	.4	.0	.0	.1	2.2	
	TOT %	*	.2	.3	.4	.6	1.0	.4	*	.0	.1	3.1	
2<5	PCP	.1	.1	.3	.3	.4	.3	.1	.1	.0	*	1.8	
	NO PCP	*	.1	.3	.3	1.0	1.8	1.1	.2	.0	.2	4.9	
	TOT %	.1	.2	.6	.6	1.4	2.1	1.2	.3	.0	.2	6.8	
5<10	PCP	.2	.6	.6	.5	.8	.3	.1	.0	*	3.4		
	NO PCP	1.1	1.3	1.9	2.4	3.7	5.0	4.6	1.1	.0	.3	22.3	
	TOT %	1.3	1.9	2.4	2.8	4.6	6.2	4.9	1.2	.0	.3	25.7	
10+	PCP	.1	*	.2	*	.2	*	*	.0	.0	.0	.6	
	NO PCP	2.7	2.0	1.9	2.8	5.1	9.0	11.3	4.3	.0	.6	39.6	
	TOT %	2.8	2.0	2.1	2.8	5.2	9.0	11.3	4.3	.0	.6	40.2	
TOT OBS													2348
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	.1	.1	.5	.4	.2	.1	.0	.7	2.2	
	4-10	.2	.2	.7	.8	2.2	2.9	1.9	.3	.0		9.1	
	11-21	.0	.2	.4	.6	1.8	3.8	1.3	.1	.0		8.1	
	22+	.0	.0	.0	.0	.2	.5	*	.0	.0		.6	
	TOT %	.3	.4	1.1	1.5	4.7	7.5	3.5	.5	.0	.7	20.2	
1/2<1	0-3	*	.1	*	*	*	*	.0	.0	.0	*	.3	
	4-10	*	.1	.1	.2	.4	.6	.3	.0	.0		1.6	
	11-21	*	*	.1	.2	.4	.6	.3	.1	.0		1.7	
	22+	.0	.0	.0	*	.2	.1	.0	.0	.0		.3	
	TOT %	.1	.2	.2	.4	1.0	1.3	.6	.1	.0	*	3.9	
1<2	0-3	.0	*	*	.0	.0	*	.1	.0	.0	.1	.3	
	4-10	.0	.0	.1	.2	.3	.2	.1	.0	.0		.9	
	11-21	*	.1	.1	.2	.3	.6	.2	*	.0		1.5	
	22+	.0	*	.0	.1	*	.1	.1	.0	.0		.3	
	TOT %	*	.1	.3	.5	.6	.9	.4	*	.0	.1	3.0	
2<5	0-3	.0	.0	.1	.1	.1	.1	.1	.0	.0	.2	.6	
	4-10	*	.1	.3	.2	.4	.7	.4	.1	.0		2.2	
	11-21	.1	.1	.2	.3	.7	1.2	.6	.1	.0		3.2	
	22+	*	.1	.1	.1	.3	.2	*	*	.0		.8	
	TOT %	.2	.2	.7	.7	1.4	2.1	1.1	.2	.0	.2	6.8	
5<10	0-3	*	.1	.2	.1	.1	.2	.1	.1	.0	.3	1.3	
	4-10	.4	.5	.9	1.2	1.9	2.1	1.3	.4	.0		8.7	
	11-21	.6	1.0	1.0	1.2	2.1	3.1	2.6	.5	.0		12.0	
	22+	.2	.2	.2	.1	.3	.7	.5	.2	.0		2.4	
	TOT %	1.2	1.8	2.2	2.6	4.3	6.0	4.5	1.3	.0	.3	24.3	
10+	0-3	.4	.2	.2	.1	.4	.3	.3	.2	.0	.8	2.8	
	4-10	1.3	1.1	1.3	1.5	2.3	3.8	4.2	1.9	.0		17.5	
	11-21	1.1	1.0	.9	1.0	2.3	4.1	5.9	2.3	.0		18.5	
	22+	.3	.3	.1	.2	.1	.7	.8	.4	.0		2.9	
	TOT %	3.0	2.6	2.5	2.8	5.2	8.9	11.2	4.7	.0	.8	41.7	
TOT OBS													7634
TOT PCT													100.0

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1870-1970

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45.9N 54.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8 AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	23.7	.2	1.8	6.7	10.6	6.8	1.0	.6	1.0	2.2	54.4	45.6	511
06009	23.2	.5	2.5	6.2	11.9	5.9	3.2	.7	.0	1.5	55.6	44.4	405
12015	20.3	1.0	2.9	7.2	11.6	6.0	2.7	.6	1.4	2.7	56.5	43.5	483
18021	19.4	1.3	1.7	7.0	9.8	6.3	1.8	.4	.9	2.6	51.2	48.8	541
TOT	418	15	42	132	211	122	41	11	17	44	1053	887	1940
PCT	21.5	.8	2.2	6.8	10.9	6.3	2.1	.6	.9	2.3	54.3	45.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL
(GMT)							OBS
00003	21.5	3.5	2.4	6.6	29.4	36.7	763
06009	21.2	3.4	2.2	5.8	23.8	43.6	551
12015	19.6	4.4	4.9	6.9	20.9	43.3	679
18021	18.2	4.4	2.5	7.7	22.5	44.7	676
TOT	537	106	80	181	649	1116	2669
PCT	20.1	4.0	3.0	6.8	24.3	41.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8 BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL
(GMT)	<5000	<1	<5	AND 5+	AND 5+	OBS
00003	23.4	27.1	38.0	19.0	43.0	495
06009	23.4	27.9	37.2	21.1	41.7	398
12015	21.2	28.8	41.3	20.1	38.6	472
18021	19.5	24.8	37.1	18.4	44.5	528
TOT	412	512	727	370	796	1893
PCT	21.8	27.0	38.4	19.5	42.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FRFQ
80/84	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
75/79	.0	.0	.0	.0	.1	.0	.1	.0	2	.1
70/74	.0	.0	.0	.0	.1	.1	.4	.2	15	.9
65/69	.0	.0	.1	.0	.2	1.1	2.4	5.0	145	8.8
60/64	.0	.0	.1	.1	.8	2.9	12.5	20.9	616	37.3
55/59	.0	.0	.0	.1	.8	3.9	13.8	24.7	716	43.3
50/54	.0	.0	.0	.1	.2	.9	2.9	5.1	152	9.2
45/49	.0	.0	.0	.0	.0	.2	.0	.2	6	.4
TOTAL	0	0	2	3	34	152	530	928	1653	100.0
PCT	.0	.0	.1	.2	2.3	9.2	32.1	56.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
.0	.0	.0	.1	.5	.2	.0	.0	.1	.0
.1	.1	.4	.7	2.2	3.3	1.7	.3	.0	.0
.8	.9	1.3	3.4	7.3	12.0	8.6	2.1	.0	.7
2.0	2.1	3.1	3.8	6.6	10.9	11.0	3.1	.0	.8
1.3	1.3	1.2	.6	1.0	1.0	1.5	.8	.0	.4
.2	.2	.0	.0	.0	.0	.1	.0	.0	.0
4.4	4.6	6.0	8.6	17.2	27.8	23.0	6.4	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	73	68	66	59	53	50	47	59.0	822
06009	69	67	65	59	53	50	49	58.5	602
12015	76	70	67	60	54	51	47	59.8	771
18021	81	73	69	61	54	51	50	60.9	715
TOT	81	70	67	59	53	50	47	59.6	2910

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	.0	1.5	8.5	25.6	64.4	91	472		
06009	.0	.0	1.1	7.2	28.2	63.5	92	348		
12015	.0	.2	2.2	8.1	37.4	52.0	90	406		
18021	.0	.9	4.0	12.2	37.6	45.2	88	449		
TOT	0	5	38	153	440	939	90	1675		

AUGUST

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1870-1970

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	W FOG
20/22	.0	.0	.0	.0	.0	.0	.0	*	*	.0	2	*	*
17/19	.0	.0	.0	*	.0	.0	*	.1	.0	.0	4	*	.1
14/16	.0	.0	*	.1	.1	.1	.0	*	.0	.0	9	.1	.3
11/13	.0	.0	*	.1	.4	.0	.2	.1	.0	*	20	.4	.5
9/10	.0	.0	*	.4	.8	.6	.3	.0	.0	.0	44	.5	1.6
7/8	.0	.1	.3	1.4	1.7	1.1	.1	.0	.0	.0	101	1.1	3.7
6	.0	.1	.4	1.4	1.1	.8	*	*	.0	.0	84	1.2	2.7
5	.0	.1	.3	2.8	2.0	1.0	.1	.0	.0	.0	135	2.2	4.1
4	.0	*	1.2	4.2	2.8	1.0	.1	.0	.0	.0	198	3.0	6.3
3	.0	.1	2.2	5.2	4.1	1.0	.2	.0	.0	.0	274	4.5	8.4
2	.0	.2	1.6	6.0	4.2	.6	.1	.0	.0	.0	270	3.9	8.8
1	.0	.3	2.0	6.5	3.4	.5	.0	.0	.0	.0	271	3.5	9.3
0	.0	.4	3.2	5.1	2.7	.3	.0	.0	.0	.0	251	3.1	8.7
-1	.1	.4	3.0	2.6	1.7	.2	.0	.0	.0	.0	170	1.9	6.1
-2	.0	.3	1.6	2.8	.6	*	.0	.0	.0	.0	112	.8	4.5
-3	*	.3	1.1	1.6	.3	.0	.0	.0	.0	.0	74	.7	2.8
-4	.0	.3	1.1	.7	.1	.1	.0	.0	.0	.0	48	.4	1.8
-5	.0	.1	.4	.3	.2	*	.0	.0	.0	.0	22	.1	.9
-6	.0	.2	.3	.1	.0	.0	.0	.0	.0	.0	13	.1	.5
-7/-8	.0	.1	.3	.2	.0	*	.0	.0	.0	.0	14	.2	.5
-9/-10	*	*	*	.2	*	.0	.0	.0	.0	.0	8	*	.3
-11/-13	.0	.0	*	*	*	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	4		409		561		26		1		2127	592	1535
PCT	.2	3.1	19.2	41.8	26.4	7.6	1.2	.4	*	*	100.0	27.8	72.2

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.1	.0	.0	.0	.0	.4	.0	.1	*	.0	.0	.0	.2
1-2	.0	.8	.1	.0	.0	.0	.9	.0	.9	.1	.0	.0	.0	1.0
3-4	.0	.0	.3	.0	.0	.0	.3	.0	.4	.5	.0	.0	.0	.9
5-6	.0	.1	.4	.0	.0	.0	.5	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.1	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.1	1.3	.0	.1	.0	2.7	.0	1.4	1.1	.1	.1	.0	2.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.1	.0	.0	.0	.8	.2	1.0	.3	.0	.0	.0	1.5
1-2	.0	.6	.4	.0	.0	.0	.9	*	1.8	.9	.0	.0	.0	2.8
3-4	.0	1.1	1.0	.1	.0	.0	2.1	.3	.8	1.5	.5	.0	.0	3.0
5-6	.0	.0	.1	.1	.0	.0	.3	.0	.0	.7	.1	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.2	1.6	.4	.0	.0	4.4	.5	3.7	3.8	.8	.0	.0	8.8

PERIOD: (OVER-ALL) 1963-1970

AUGUST
TABLE 18 (CONT)AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.1	.0	.0	.0	.0	1.4	.1	1.4	.1	.0	.0	.0	1.7	
1-2	.4	3.5	.8	.0	.0	.0	4.7	.3	4.4	2.9	.0	.0	.0	7.6	
3-4	.0	1.5	4.2	.0	.0	.0	5.7	.1	4.3	6.3	.6	.0	.0	11.4	
5-6	.0	.2	1.4	.3	.0	.0	1.9	.0	.7	4.8	.3	.1	.0	5.9	
7	.0	.0	1.0	.1	.0	.0	1.2	.0	.1	2.5	.5	.0	.0	3.2	
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.8	.2	.0	.0	1.0	
10-11	.0	.0	.2	.1	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	6.3	7.6	.8	.0	.0	15.4	.6	11.0	17.7	1.8	.1	.0	31.3	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.8	.1	.0	.0	.0	1.0	.0	.2	.0	.0	.0	.0	.3	
1-2	.6	3.4	2.0	.0	.0	.0	6.0	.0	.6	.5	.0	.0	.0	1.1	
3-4	.0	2.0	4.5	.1	.0	.0	6.6	.0	.7	1.2	.0	.0	.0	1.8	
5-6	.1	1.3	5.0	.4	.0	.0	6.9	.0	.6	.8	.0	.0	.0	1.5	
7	.0	.0	2.2	.5	.0	.0	2.7	.0	.1	.6	.0	.0	.0	.8	
8-9	.1	.1	.5	.0	.0	.0	.8	.0	.0	.5	.1	.0	.0	.6	
10-11	.0	.0	.5	.1	.0	.0	.7	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.4	.3	.0	.0	.7	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	7.6	15.4	1.4	.0	.0	25.3	.0	2.2	3.9	.3	.1	.0	6.6	97.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.2	5.3	.7	.0	.0	.0	10.2	
1-2	1.3	15.9	7.6	.0	.0	.0	24.8	
3-4	.7	10.5	19.5	1.3	.0	.0	32.0	
5-6	.1	2.9	13.4	1.3	.1	.0	17.9	
7	.0	.3	7.2	1.3	.0	.0	8.8	
8-9	.1	.1	2.0	.6	.1	.0	3.0	
10-11	.0	.1	1.2	.6	.0	.0	1.9	
12	.0	.0	.6	.3	.1	.0	1.0	
13-16	.0	.0	.0	.3	.1	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	35.2	52.2	5.6	.6	.0	100.0	694

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	12.2	18.6	8.1	3.0	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	730	3
6-7	.1	1.0	7.0	9.4	6.3	3.0	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	464	5
8-9	.1	.2	1.5	2.4	2.6	1.2	.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	159	7
10-11	.0	.1	.4	.5	.4	.1	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	7
12-13	.0	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
>13	.0	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	10
INDET	2.8	3.6	4.5	2.7	1.1	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	253	3
TOTAL	76	285	529	387	223	85	36	19	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1652	4
PCT	4.6	17.3	32.0	23.4	13.5	5.1	2.2	1.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1869-1970

AREA 0005 PLACENTIA BAY SOUTH
45.8N 54.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.2	1.4	3.4	.0	.0	.0	.0	5.9	1.9	.0	4.9	.7	.2	.0	86.3
NE	4.1	1.0	1.3	.0	.0	.0	.0	6.4	3.5	.9	8.0	.1	1.8	.0	79.4
E	9.1	.2	1.9	.0	.0	.0	.0	10.5	2.6	.0	9.2	1.0	.2	.0	76.5
SE	9.6	3.5	3.3	.0	.0	.0	.0	16.2	2.7	.0	20.5	.0	.7	.0	59.9
S	8.0	3.7	3.4	.0	.0	.0	.0	14.8	2.6	.3	29.8	.8	2.1	.0	49.6
SW	3.5	1.6	2.7	.0	.0	.0	.0	7.8	1.5	.2	22.9	.3	1.4	.0	65.8
W	1.7	.8	1.3	.0	.0	.0	.0	3.6	1.0	.2	10.4	.3	1.2	.1	83.2
NW	.5	1.3	.6	.0	.0	.0	.0	2.3	1.3	.3	3.2	.0	.0	.0	92.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	.0	.0	.0	.0	.0	.0	.9	.0	.0	10.0	.0	.9	.0	88.2
TOT PCT	3.9	1.6	2.0	.0	.0	.0	.0	7.3	1.8	.2	14.1	.3	1.0	*	75.1
TOT OBS	2864														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	4.1	2.0	3.1	.0	.0	.0	.0	8.7	1.5	.5	14.3	.2	.6	.1	74.1
0600Z	3.2	1.8	1.7	.0	.0	.0	.0	6.7	2.9	.3	12.4	.0	1.1	.0	76.6
1200Z	4.0	1.4	1.9	.0	.0	.0	.0	7.3	1.1	.0	12.9	1.1	1.4	.0	76.3
1800Z	4.1	1.1	1.1	.0	.0	.0	.0	6.4	2.0	.1	17.4	.0	1.1	.0	72.9
TOT PCT	3.9	1.6	2.0	.0	.0	.0	.0	7.3	1.8	.2	14.2	.3	1.0	*	74.9
TOT OBS	2892														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WNO DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.3	2.9	3.6	1.2	.2	.0		8.3	14.4	7.2	6.7	9.5	10.2	10.4	8.0	6.1	7.6	
NE	.2	2.5	3.5	.8	.3	.0		7.3	14.3	7.5	7.3	8.8	7.1	6.9	6.8	7.8	4.2	
E	.3	3.4	2.9	.6	*	*		7.3	11.8	8.4	8.2	8.3	7.8	6.9	4.7	6.9	4.8	
SE	.4	3.3	3.1	.6	.1	*		7.5	12.3	7.2	4.8	7.8	6.2	8.7	8.5	6.7	9.3	
S	.5	5.3	5.0	1.5	.2	*		12.6	13.2	10.8	13.7	11.0	14.4	12.3	12.7	14.5	14.7	
SW	.8	7.3	9.0	2.0	.2	*		19.3	13.4	18.7	25.2	17.0	19.7	17.3	20.5	19.9	23.4	
W	.6	6.9	9.3	3.3	.3	*		20.5	14.8	22.0	18.8	18.5	20.7	19.8	20.8	21.5	21.4	
NW	.3	4.4	6.6	2.3	.2	.0		13.8	14.9	13.8	13.4	14.0	13.5	14.6	15.7	12.8	12.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.4							3.4	.0	4.4	1.8	5.1	.4	3.1	2.3	3.9	1.8	
TOT OBS	248	1290	1538	444	56	5	3581		13.3	749	279	584	235	710	213	590	221	
TOT PCT	6.9	36.0	42.9	12.4	1.6	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	1.4	3.9	2.4	.6	*		8.3	14.4	7.1	9.7	9.9	6.5		
NE	1.3	3.4	2.2	.4	*		7.3	14.3	7.4	8.3	6.9	6.8		
E	2.0	3.7	1.4	.2	*		7.3	11.8	8.4	8.2	6.4	6.3		
SE	1.9	3.8	1.6	.2	*		7.5	12.3	6.6	7.3	8.6	7.4		
S	2.5	6.4	3.0	.7	*		12.6	13.2	11.6	12.0	12.4	14.5		
SW	3.0	10.6	4.8	.7	.1		19.3	13.4	20.4	17.7	18.1	20.8		
W	2.7	10.0	6.5	1.1	.2		20.5	14.8	21.1	19.1	20.0	21.5		
NW	1.5	7.0	4.5	.7	.1		13.8	14.9	13.7	13.9	14.9	12.8		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	3.4						3.4	.0	2.7	3.8	2.9	3.3		
TOT OBS	704	1747	946	166	18	3581		13.3	1028	819	923	811		
TOT PCT	19.7	48.8	26.4	4.6	.5		100.0		100.0	100.0	100.0	100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1869-1970

AREA 0005 PLACENTIA RAY SOUTH
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	3.7	4.0	35.7	42.9	12.2	1.5	.1	13.1	100.0	1028
0600	3.8	4.0	36.0	43.5	11.7	.9	.1	12.9	100.0	819
1200	2.9	3.3	38.1	41.0	12.6	2.1	.1	13.5	100.0	923
1800	3.3	2.6	34.0	44.8	13.2	1.8	.2	13.8	100.0	811
TOT	123	123	1290	1538	444	56	5	13.3		3581
PCT	3.4	3.5	36.0	42.9	12.4	1.6	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	1.6	2.1	2.7		4.8
NE	1.7	.9	1.6	3.5		5.5
E	1.8	.7	1.7	3.4		5.4
SE	1.0	.5	1.2	3.8		6.7
S	2.0	.7	1.9	7.2		6.2
SW	4.8	1.4	3.9	8.3		5.3
W	8.4	3.2	4.3	5.6		4.0
NW	5.4	2.6	3.0	2.5		3.8
VAR	.0	.0	.0	.0		.0
CALM	2.2	.2	.8	1.0		3.4
TOT OBS	660	261	456	844	2221	4.9
TOT PCT	29.7	11.8	20.5	38.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.4	.0	.2	1.1	1.1	1.0	.1	.1	.1	.1	.1	4.8
NE	.5	.0	.2	.6	1.4	1.3	.3	.1	.2	.1	.1	3.1
E	.3	.0	.3	.6	1.3	.8	.2	.1	.3	.1	.1	3.4
SE	1.1	.0	.2	.7	1.1	.8	.2	.1	.1	.2	.1	2.1
S	2.3	.2	.5	1.4	1.7	1.1	.3	.2	.1	.2	.2	3.8
SW	3.4	.0	.4	1.2	2.3	1.2	.5	.2	.1	.4	.4	8.8
W	1.4	.1	.4	.9	2.0	1.2	.6	.3	.2	.4	1.4	14.0
NW	.4	.0	.1	.5	1.4	.8	.3	.1	.1	.1	.1	9.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.3	.0	.0	.2	.4	.5	.0	.0	.0	.0	.0	2.7
TOT OBS	226	.0	53	157	280	195	57	24	25	33	1163	2221
TOT PCT	10.2	.4	2.4	7.1	12.6	8.8	2.6	1.1	1.1	1.5	52.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	>10	>5	>2	VSBY (NM) >1	>1/2	>1/4	>5000	>0
>6500	1.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6
>5000	2.0	3.5	3.7	3.7	3.7	3.7	3.7	3.7
>3500	3.6	5.8	6.2	6.2	6.2	6.2	6.2	6.2
>2000	8.8	14.0	14.8	15.0	15.0	15.0	15.0	15.0
>1000	14.9	24.4	26.9	27.3	27.5	27.5	27.5	27.6
>600	18.2	29.8	33.5	34.0	34.2	34.5	34.5	34.6
>300	18.7	31.1	35.4	36.1	36.4	36.9	36.9	36.9
>150	18.7	31.1	35.5	36.4	36.8	37.2	37.2	37.3
>0	18.8	31.5	36.4	37.8	38.9	40.9	45.8	47.5
TOTAL	417	700	808	840	863	907	1016	1055

TOTAL NUMBER OF OBS: 2220

PCT FREQ NH <5/8: 52.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
22.9	8.7	8.2	6.9	4.7	3.4	6.3	5.3	24.1	9.4	2332

SEPTEMBER

PERIOD: (PRIMARY) 1932-1970
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	*	.1	.1	.2	.4	.1	.0	.0	*	.9	
	NO PCP	.2	.3	.4	1.0	2.5	2.9	1.0	.2	.0	.2	8.8	
	TOT %	.3	.4	.5	1.0	2.7	3.1	1.1	.2	.0	.2	9.7	
1/2<1	PCP	.0	.0	*	*	.1	*	*	.0	.0	.0	.2	
	NO PCP	*	.1	.1	.3	.3	.2	.4	.1	.0	.1	1.6	
	TOT %	*	.1	.1	.3	.4	.2	.4	.1	.0	.1	1.8	
1<2	PCP	.0	.0	.0	.1	.2	*	.1	.1	.0	.0	.6	
	NO PCP	.1	.1	.1	*	.2	.3	.2	.1	.0	.0	1.0	
	TOT %	.1	.1	.1	.2	.4	.4	.3	.1	.0	.0	1.6	
2<5	PCP	.1	.1	.2	.3	.4	.5	.1	.0	.0	.0	1.7	
	NO PCP	.2	.2	.3	.6	1.2	1.1	.6	.3	.0	.2	4.7	
	TOT %	.3	.3	.6	.9	1.6	1.6	.7	.3	.0	.2	6.4	
5<10	PCP	.3	.3	.4	.5	.8	.6	.3	.2	.0	.0	3.3	
	NO PCP	1.7	2.0	1.7	1.9	3.2	5.0	5.2	3.6	.0	.5	24.7	
	TOT %	2.0	2.3	2.0	2.4	4.0	5.6	5.5	3.8	.0	.5	28.0	
10+	PCP	*	.1	.1	.1	.1	.1	.1	.1	.0	.0	.6	
	NO PCP	5.5	4.7	4.0	2.3	3.2	7.7	12.7	9.0	.0	2.8	51.8	
	TOT %	5.5	4.8	4.1	2.4	3.3	7.7	12.8	9.0	.0	2.8	52.4	
TOT OBS													2858
TOT PCT													
8.3 7.9 7.3 7.2 12.4 18.7 20.9 13.5 .0 3.8 100.0													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	*	.1	.1	.2	*	*	.0	.3	.8	
	4-10	.2	.2	.2	.5	1.3	1.3	.6	.1	.0		4.4	
	11-21	.1	.1	.2	.4	.9	1.6	.5	.1	.0		4.0	
	22+	*	.0	*	.1	.5	.2	.1	.0	.0		.9	
	TOT %	.3	.4	.5	1.1	2.7	3.3	1.2	.2	.0	.3	10.1	
1/2<1	0-3	.0	*	*	.0	*	*	*	.0	.0	.1	.2	
	4-10	*	.0	.0	.1	.2	.1	.1	*	.0		.6	
	11-21	.0	*	*	.1	.1	.2	.1	*	.0		.7	
	22+	.0	*	.1	*	.1	*	.1	.0	.0		.4	
	TOT %	*	.1	.1	.3	.4	.3	.4	.1	.0	.1	1.8	
1<2	0-3	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	4-10	.1	*	*	.0	.1	.1	*	*	.0		.4	
	11-21	.0	*	*	.1	.2	.2	.1	*	.0		.7	
	22+	.0	*	.0	.1	.2	.1	.1	*	.0		.5	
	TOT %	.1	.1	.1	.2	.4	.4	.3	.1	.0	.0	1.6	
2<5	0-3	*	.0	.1	*	.0	*	.1	.0	.0	.2	.4	
	4-10	.1	.1	.2	.2	.3	.4	.2	.1	.0		1.5	
	11-21	.1	.2	.3	.6	.7	.8	.3	.1	.0		3.1	
	22+	*	.1	.1	.2	.5	.5	.1	.1	.0		1.5	
	TOT %	.3	.3	.6	.9	1.5	1.7	.7	.3	.0	.2	6.5	
5<10	0-3	.1	*	.1	.0	*	.1	.1	*	.0	.5	.9	
	4-10	.4	.6	.9	1.0	1.5	1.8	1.6	1.2	.0		8.9	
	11-21	.8	1.0	.7	1.1	1.8	2.8	2.5	1.5	.0		12.3	
	22+	.6	.5	.4	.2	.5	.8	1.0	.8	.0		4.7	
	TOT %	1.8	2.2	2.0	2.3	3.9	5.4	5.1	3.5	.0	.5	26.8	
10+	0-3	.1	.1	.2	.3	.1	.3	.4	.2	.0	2.6	4.2	
	4-10	1.9	1.7	2.0	1.3	1.9	3.5	4.1	3.0	.0		19.3	
	11-21	2.8	2.2	1.7	.9	1.5	3.7	5.8	4.8	.0		23.3	
	22+	.7	.6	.2	.2	.1	.7	2.4	1.4	.0		6.3	
	TOT %	5.5	4.6	4.1	2.7	3.6	8.1	12.6	9.5	.0	2.6	53.2	
TOT OBS													3191
TOT PCT													
8.0 7.6 7.3 7.5 12.6 19.2 20.5 13.7 .0 3.5 100.0													

SEPTEMBER

PERIOD: (PRIMARY) 1932-1970
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TABLE 10

PERCENT FREQUENCY OF CRUISING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	190 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	12.7	.5	1.8	5.1	9.6	8.1	3.3	1.5	.8	1.8	45.4	54.6	604
06009	9.2	.4	3.8	6.6	12.2	9.4	2.0	1.2	1.4	1.4	47.7	52.3	499
12015	7.3	.4	2.1	8.2	14.9	8.3	2.5	.9	1.1	.9	46.5	53.5	564
18021	11.5	.2	1.8	8.0	12.8	9.0	2.3	.7	1.2	1.7	49.0	51.0	602
TOT	233	8	53	158	280	197	58	24	25	33	1069	1200	2269
PCT	10.3	.4	2.3	7.0	12.3	8.7	2.6	1.1	1.1	1.5	47.1	52.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	11.4	1.9	1.3	4.5	30.2	50.7	911
06009	9.7	1.5	1.3	6.1	27.9	53.5	742
12015	7.9	1.9	2.1	7.5	26.7	53.9	809
18021	11.6	2.1	1.7	7.9	21.8	54.8	757
TOT	328	59	57	207	863	1710	3219
PCT	10.2	1.8	1.6	6.4	26.8	53.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	12.9	16.9	24.4	23.7	51.9	590
06009	9.5	14.7	24.8	25.4	49.8	484
12015	7.4	10.3	24.6	24.6	50.7	556
18021	11.5	14.4	27.5	24.1	48.5	590
TOT	231	313	563	542	1115	2220
PCT	10.4	14.1	25.4	24.4	50.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.1	.1	.1	.1	.2	9	.5
65/69	.0	.0	.0	.1	.1	.4	.5	1.3	40	2.3
60/64	.0	.0	.0	.3	.7	2.5	5.4	10.2	330	19.1
55/59	.0	.0	.1	.2	2.5	8.2	15.6	19.5	797	46.2
50/54	.0	.0	.1	.7	3.5	4.6	9.3	8.8	467	27.1
45/49	.0	.0	.0	.2	.9	1.4	1.6	.8	77	4.5
40/44	.0	.0	.0	.0	.0	.2	.1	.1	6	.3
TOTAL	0	0	4	25	129	302	561	705	1726	100.0
PCT	.0	.0	.2	1.4	7.5	17.5	32.5	40.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.1	.0	.1	.1	.3	.0	.0	.0
65/69	.1	.1	.2	.2	.5	.6	.4	.2	.0	.0
60/64	.6	.4	.9	1.3	4.4	5.5	4.0	1.5	.0	.3
55/59	3.3	3.1	3.0	3.3	5.8	9.8	11.7	5.3	.0	.9
50/54	3.4	3.3	2.2	1.1	1.8	3.0	6.9	4.8	.0	.5
45/49	1.2	.6	.3	.0	.1	.0	.7	1.3	.0	.2
40/44	.1	.1	.1	.0	.0	.0	.1	.0	.0	.0
TOTAL	8.8	7.7	6.9	6.0	12.7	19.0	24.0	13.1	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	66	64	56	50	46	44	56.5	1032
06009	69	65	63	56	48	45	43	55.9	817
12015	76	67	64	57	50	47	44	57.2	916
18021	75	70	66	58	50	47	44	57.9	810
TOT	76	68	64	57	50	46	43	56.9	3575

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.8	6.7	16.1	35.2	41.3	86	492		
06009	.0	2.1	3.8	12.8	35.1	46.2	88	390		
12015	.0	2.1	7.8	19.0	30.9	40.3	86	437		
18021	.0	2.1	11.1	21.7	28.2	37.0	84	433		
TOT	0	30	130	306	567	719	86	1752		

SEPTEMBER

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1869-1970

AREA 0005 PLACENTIA BAY SOUTH
45.8N 54.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.1	*	*	.0	.0	.1	7	.1	.2
11/13	.0	.0	.0	.1	.1	.1	.1	.2	.0	14	.2	.4
9/10	.0	*	.1	.1	.3	.5	.2	.2	.0	37	.4	1.0
7/8	.0	.1	.1	.4	1.3	.6	.3	.4	*	88	.9	2.6
6	.0	.0	.1	.3	.7	.9	.2	.1	.0	57	.6	1.7
5	.0	.0	.2	.8	1.7	1.2	.7	.0	.0	114	1.1	3.4
4	.0	.0	.2	1.5	2.8	1.7	.4	*	*	168	1.4	5.3
3	.0	*	.3	1.9	3.1	2.1	.5	.0	.0	197	1.6	6.3
2	.0	*	.7	2.9	4.2	2.5	.1	.0	.0	261	1.9	8.6
1	.0	.1	.8	4.3	4.0	1.7	.2	.0	.0	277	2.1	9.0
0	.1	.2	1.6	4.8	4.6	1.8	.2	.0	.0	331	1.6	11.7
-1	.0	.2	1.3	4.6	2.5	1.0	.0	.0	.0	238	.9	8.6
-2	*	.2	1.6	4.0	2.7	.7	.0	.0	.0	229	.8	8.4
-3	*	.4	1.1	2.4	1.2	.2	.0	.0	.0	132	.1	5.2
-4	.0	.1	1.6	1.9	1.4	.2	.0	.0	.0	131	.4	4.8
-5	.0	.4	1.1	1.4	.4	.0	.0	.0	.0	80	.1	3.1
-6	.0	.2	.6	.7	.2	.0	.0	.0	.0	41	.0	1.6
-7/-8	*	.5	.6	.9	.2	.0	*	.0	.0	57	.1	2.2
-9/-10	.1	.2	.5	.4	*	.0	.0	.0	.0	32	.0	1.3
-11/-13	.0	.0	.1	.0	.1	.0	.0	.0	.0	4	.0	.2
TOTAL	8		314		787		74		4	2495	356	2139
PCT	.3	2.6	12.6	33.5	31.5	15.4	3.0	.8	.2	100.0	14.3	85.7

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.1	.2	.2	.0	.0	.0	.5
1-2	.1	1.8	.5	.0	.0	.0	2.4	.0	1.7	.2	.0	.0	.0	1.9
3-4	.0	1.1	1.6	.1	.0	.0	2.9	.0	.6	1.6	.3	.0	.0	2.5
5-6	.0	.0	1.7	.2	.0	.0	1.8	.0	.0	1.7	.3	.0	.0	2.1
7	.0	.1	.6	.3	.0	.0	1.0	.0	.0	.6	.3	.1	.0	.9
8-9	.0	.0	.2	.3	.0	.0	.5	.0	.0	.3	*	.0	.0	.3
10-11	.0	.0	.2	.4	.0	.0	.6	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.1	.0	.2
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.2	4.8	1.5	.0	.0	9.6	.1	2.4	4.6	1.1	.2	.0	8.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.0	.0	.0	.0	.8	.1	.2	.1	.0	.0	.0	.4
1-2	.1	1.7	.3	.0	.0	.0	2.0	.1	1.6	.1	.0	.0	.0	1.8
3-4	.0	.7	1.6	.0	.0	.0	2.3	.0	.8	1.0	.0	.0	.0	1.8
5-6	.0	.4	.5	.1	.0	.0	.9	.0	.1	1.3	.4	.0	.0	1.8
7	.0	.0	.4	.2	.0	.0	.6	.0	.0	.5	.1	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.1	.4
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.4	2.8	.7	.0	.0	7.2	.2	2.8	3.4	.8	.1	.1	7.4

PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER

AREA 0005 PLACENTIA BAY SOUTH
45.8N 54.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.1	.0	.0	.0	1.3	.7	.9	.0	.0	.0	.0	1.2
1-2	.0	3.2	.5	.0	.0	.0	3.7	.1	2.5	.9	.0	.0	.0	3.2
3-4	.0	.8	2.1	.3	.0	.0	3.2	.0	1.4	3.0	.5	.0	.0	4.9
5-6	.0	.2	1.3	.3	.1	.0	1.9	.0	.4	3.2	.1	.0	.0	3.7
7	.0	.0	.6	.5	.2	.0	1.3	.0	.1	1.0	.6	.0	.0	1.7
8-9	.0	.0	.1	.1	.1	.0	.3	.0	.1	.3	.2	.0	.0	.6
10-11	.0	.0	.0	.3	.1	.0	.4	.0	.0	.2	.1	.1	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2
13-16	.0	.0	.0	.3	.1	.1	.5	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.0	4.7	1.8	.6	.1	12.5	.4	5.5	8.2	1.6	.3	.0	15.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.8	.0	.0	.0	.0	.9	.3	.5	.0	.0	.0	.0	.8	
1-2	.1	2.2	1.1	.0	.0	.0	3.3	.1	1.1	.5	.0	.0	.0	1.7	
3-4	.0	2.0	2.3	.6	.0	.0	4.9	.0	.8	2.4	.2	.0	.0	3.5	
5-6	.0	.6	2.2	.5	.0	.0	3.2	.0	.2	2.3	.2	.0	.0	2.7	
7	.0	.0	2.1	.7	.0	.0	2.7	.0	.0	1.1	.7	.0	.0	1.7	
8-9	.0	.0	.7	.4	.1	.0	1.2	.0	.0	.9	.5	.0	.0	1.4	
10-11	.0	.1	.1	.6	.0	.0	.7	.0	.0	.3	.3	.0	.0	.6	
12	.0	.1	.0	.1	.0	.0	.2	.0	.0	.1	.4	.1	.0	.6	
13-16	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	5.7	8.5	3.0	.2	.0	17.5	.4	2.7	7.6	2.4	.1	.0	13.1	91.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.4	4.3	.4	.0	.0	.0	14.2	
1-2	.8	15.8	3.7	.0	.0	.0	20.3	
3-4	.0	8.2	15.6	2.1	.0	.0	25.9	
5-6	.0	1.9	14.2	1.9	.1	.0	18.0	
7	.0	.2	6.7	3.2	.3	.0	10.5	
8-9	.0	.1	2.6	1.7	.2	.1	4.7	
10-11	.0	.1	1.0	2.2	.2	.0	3.6	
12	.0	.1	.1	1.2	.2	.0	1.6	
13-16	.0	.0	.1	.5	.2	.1	.9	
17-19	.0	.0	.1	.0	.1	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.3	30.7	44.5	12.8	1.5	.2	100.0	954

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-21	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<1	1.9	9.2	15.8	6.9	2.3	.5	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	720	3
1-2	.0	.6	5.1	8.6	6.1	2.4	2.2	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	508	6
3-4	.1	.3	1.4	2.3	2.5	1.9	1.7	.9	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	226	7
5-6	.0	.1	.3	.7	.7	.5	.5	.4	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	67	8
7	.0	.0	.3	.1	.2	.3	.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	8
8-9	.0	.0	.0	.2	.0	.3	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	10
10-11	5.1	4.0	4.8	2.5	2.0	.8	.3	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	384	3
TOTAL	137	275	539	415	266	127	95	50	27	6	5	1	0	0	0	0	0	0	0	1943	5
PCT	7.1	14.2	27.7	21.4	13.7	6.5	4.9	2.6	1.4	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1873-1970

OCTOBER

AREA 0005 PLACENTIA RAY SOUTH
43.9N 54.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WFA
N	3.6	2.4	3.5	.0	.5	.0	.0	9.3	2.6	.0	2.4	.0	1.0	.0	84.6
NE	11.7	2.2	7.4	.0	.0	.0	.0	19.8	2.7	.0	8.4	.0	.8	.6	67.7
E	17.0	3.7	9.1	.0	.0	.0	.0	28.5	.8	.0	11.3	.0	1.2	.0	58.2
SE	16.3	5.0	4.4	.0	.0	.0	.0	25.0	3.3	.5	19.7	1.0	1.9	.0	49.1
S	9.8	2.6	3.7	.0	.0	.0	.0	16.0	3.1	.0	23.6	1.2	2.1	.0	54.0
SW	4.4	2.8	2.1	.0	.0	.0	.0	9.2	1.7	.0	17.4	.3	1.6	.0	69.7
W	2.6	2.7	.6	.0	.0	.0	.0	6.0	.9	.0	7.6	.3	.9	.2	84.2
NW	2.4	3.2	.7	.0	.5	.0	.0	6.8	2.3	.0	3.7	.0	1.0	.0	86.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.1	3.0	6.1	.0	.0	.0	.0	12.1	.0	.0	27.3	.0	3.0	.0	57.6
TOT PCT	6.5	3.0	2.9	.0	.1	.0	.0	12.2	2.0	.0	11.8	.4	1.3	.1	72.3
TOT OBS:	2476														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WFA
00003	7.4	4.2	3.3	.0	.1	.0	.0	14.4	1.6	.0	10.3	.6	.4	.1	72.4
06009	6.2	3.1	3.2	.0	.0	.0	.0	12.3	1.5	.2	10.8	.3	1.4	.0	73.7
12015	6.4	2.1	2.8	.0	.2	.0	.0	11.4	2.5	.0	14.7	.2	2.0	.2	69.1
18021	6.4	2.3	2.0	.0	.2	.0	.0	10.5	2.3	.0	11.5	.3	1.5	.0	73.7
TOT PCT	6.6	3.0	2.8	.0	.1	.0	.0	12.2	2.0	.0	11.8	.4	1.3	.1	72.2
TOT OBS:	2495														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15
N	.2	2.6	3.6	1.8	.6	.0		8.7	16.5		8.0	9.2	8.5	10.4	7.7	12.0
NE	.3	2.3	2.6	1.2	.2	.0		6.5	15.1		6.0	8.0	6.5	7.5	7.2	5.4
E	.2	1.9	3.0	.9	.1	.0		6.1	14.8		6.8	4.1	7.1	7.3	5.9	5.4
SE	.3	3.2	3.8	1.2	.3	.0		8.8	14.6		9.3	11.8	6.8	7.6	7.8	9.7
S	.3	4.0	5.9	1.9	.4	.0		12.5	15.0		9.6	15.7	12.7	12.7	14.1	13.2
SW	.4	5.0	8.9	2.8	.4	.0		17.6	15.2		17.8	13.3	19.2	19.7	18.7	18.9
W	.4	4.8	9.7	6.6	1.3	.0		22.8	18.3		24.9	19.5	24.2	19.0	21.6	19.4
NW	.3	3.8	7.1	3.6	.6	.1		15.6	17.2		16.9	17.7	12.7	16.3	15.2	15.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3							1.4	.7		.8	.7	2.3	.4	1.7	.5
TOT OBS	120	904	1463	655	127	6	3275		16.0		646	293	525	230	632	222
TOT PCT	3.7	27.6	44.7	20.0	3.9	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40				00	03	06	12	18
N	1.4	3.4	2.8	.9	.2		8.7	16.5	8.4	9.1	8.8	8.7
NE	1.1	2.9	1.7	.8	.0		6.5	15.1	6.6	6.8	6.7	5.8
E	.7	3.2	1.9	.3	.0		6.1	14.8	5.9	7.2	5.9	5.3
SE	1.3	4.5	2.3	.7	.1		8.8	14.6	10.1	7.1	8.3	9.8
S	1.4	6.6	3.5	1.0	.0		12.5	15.0	11.5	12.7	13.9	12.0
SW	2.0	8.3	6.2	1.1	.0		17.6	15.2	16.4	19.3	18.8	15.9
W	1.7	9.0	8.4	3.3	.3		22.8	18.3	23.2	22.4	21.0	24.8
NW	1.3	6.5	5.6	2.0	.1		15.6	17.2	17.1	13.8	15.2	15.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.4	.7	.7	1.7	1.4	1.8
TOT OBS	403	1452	1062	328	30	3275		939	755	854	727	
TOT PCT	12.3	44.3	32.4	10.0	.9		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1973-1970

OCTOBER

AREA 0005 PLACENTIA BAY SOUTH
45.0N 94.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	.7	2.8	28.1	44.8	19.7	3.6	.2	15.9	100.0	939
06009	1.7	1.5	30.2	48.0	17.4	3.2	.1	15.3	100.0	755
12013	1.4	2.7	27.6	43.9	20.1	4.0	.2	16.0	100.0	894
18021	1.8	2.2	24.2	44.0	23.0	4.7	.1	16.9	100.0	727
TOT	.45	.76	904	1463	659	126	6	16.0		3279
PCT	1.4	2.3	27.6	44.7	20.0	3.8	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	.8	3.1	3.2		5.7
NE	.5	.4	1.9	4.1		6.8
E	.7	.3	.6	4.3		6.7
SE	1.0	.4	1.4	5.2		6.5
S	1.4	.6	2.5	7.4		4.6
SW	4.2	1.2	4.0	8.2		5.5
W	6.8	3.4	7.0	7.7		4.9
NW	3.5	2.1	5.5	4.8		5.2
VAR	.0	.0	.0	.0		.0
CALM	.2	.3	.2	.6		5.3
TOT OBS	387	186	498	897	1968	5.7
TOT PCT	19.7	9.5	25.4	45.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	289	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.3	.0	.3	.8	2.0	1.6	.2	.0	.1	.1	3.1	
NE	.4	.0	.2	1.0	1.6	1.1	.0	.1	.1	.2	1.3	
E	.7	.0	.3	.7	1.4	1.0	.0	.0	.0	.1	1.5	
SE	1.2	.1	.3	1.1	1.9	.7	.3	.1	.0	.2	2.1	
S	1.8	.0	.3	1.2	2.6	1.1	.3	.4	.2	.4	3.3	
SW	1.6	.1	.4	1.3	3.1	2.1	.6	.2	.3	.4	7.9	
W	1.0	.1	.3	1.3	5.4	3.4	.9	.1	.1	.3	12.2	
NW	.2	.1	.3	1.1	3.4	2.7	.5	.2	.1	.2	7.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.1	.1	.3	.0	.0	.0	.1	.5	
TOT OBS	145	7	47	168	424	281	55	20	16	43	762	1968
TOT PCT	7.4	.4	2.4	8.5	21.5	14.3	2.8	1.0	.8	2.2	38.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>4	>1/2	>1/4	>5000	>0
>6500	1.4	2.7	2.9	3.0	3.0	3.0	3.0	3.0
>5000	1.9	3.6	3.9	4.0	4.0	4.0	4.0	4.0
>3500	3.5	6.2	6.5	6.6	6.6	6.7	6.7	6.7
>2000	10.9	19.9	20.7	20.9	21.0	21.1	21.1	21.1
>1000	21.8	37.6	41.1	41.9	42.0	42.3	42.3	42.6
>600	26.0	43.9	48.7	50.3	50.6	51.0	51.1	51.3
>300	26.7	45.1	50.7	52.6	53.0	53.3	53.5	53.7
>150	26.8	45.3	50.9	52.9	53.3	53.7	53.8	54.0
>0	27.0	46.0	52.1	54.9	56.0	57.6	60.3	61.2
TOTAL	990	902	1023	1077	1100	1131	1187	1202

TOTAL NUMBER OF OBS: 1963

PCT FREQ NM <5/8: 38.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

n	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
12.8	7.0	8.4	5.3	4.7	5.6	10.0	8.4	31.4	2043

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1873-1970

OCTOBER

AREA 0005 PLACENTIA RAY SOUTH
45.0N 54.3W

TABLE 5

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.2	.2	.1	.1	.0	.0	.0	.6	
	NO PCP	.0	.2	.3	.7	1.7	1.4	.8	.2	.0	.2	5.9	
	TOT %	.0	.2	.3	1.0	1.9	1.7	.9	.2	.0	.2	6.5	
1/2<1	PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.4	
	NO PCP	.1	.2	.2	.3	.3	.1	.1	.1	.0	.0	1.3	
	TOT %	.1	.2	.2	.4	.4	.2	.1	.2	.0	.0	1.8	
1<2	PCP	.0	.1	.2	.2	.2	.1	.2	.0	.0	.0	.9	
	NO PCP	.0	.1	.1	.1	.5	.4	.2	.0	.0	.0	1.7	
	TOT %	.0	.2	.3	.3	.7	.5	.4	.0	.0	.0	2.7	
2<5	PCP	.1	.5	.4	.9	.6	.4	.2	.1	.0	.0	3.0	
	NO PCP	.1	.2	.1	.6	.6	1.1	.9	.2	.0	.0	3.8	
	TOT %	.2	.7	.5	1.4	1.2	1.5	1.1	.3	.0	.0	6.8	
5<10	PCP	.5	.5	.9	.7	.7	.9	.7	.7	.0	.1	5.4	
	NO PCP	3.0	2.0	1.4	2.1	3.4	4.9	6.6	4.2	.0	.4	28.0	
	TOT %	3.5	2.5	2.2	2.8	4.1	5.8	7.3	4.9	.0	.5	33.4	
10+	PCP	.7	.1	.3	.2	.2	.1	.2	.3	.0	.0	1.6	
	NO PCP	4.9	2.3	2.2	2.9	3.7	7.7	13.5	9.4	.0	.4	47.0	
	TOT %	5.1	2.5	2.5	3.0	3.9	7.8	13.8	9.6	.0	.4	48.6	
TOT OBS													2447
TOT PCT		4.3	6.4	6.0	8.9	12.1	17.4	23.6	15.2	.0	1.3	100.0	

TABLE 6

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	.3	
	4-10	.0	.1	.2	.4	.8	.9	.4	.1	.0	.0	2.9	
	11-21	.0	.1	.2	.6	.9	.5	.4	.0	.0	.0	2.8	
	22+	.0	.0	.0	.1	.1	.2	.1	.0	.0	.0	.6	
	TOT %	.0	.3	.4	1.1	1.9	1.7	.9	.2	.0	.2	6.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.1	.2	.1	.0	.1	.0	.0	.6	
	11-21	.0	.1	.1	.2	.3	.1	.1	.1	.0	.0	1.0	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.2	.2	.3	.5	.3	.1	.2	.0	.0	1.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.1	.1	.2	.2	.1	.0	.0	.0	.7	
	11-21	.0	.1	.1	.1	.2	.4	.2	.0	.0	.0	1.1	
	22+	.0	.0	.0	.2	.2	.1	.1	.1	.0	.0	.7	
	TOT %	.1	.2	.2	.4	.7	.7	.4	.1	.0	.0	2.7	
2<5	0-3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	
	4-10	.1	.1	.0	.2	.2	.3	.3	.1	.0	.0	1.2	
	11-21	.1	.3	.3	.5	.5	.6	.4	.1	.0	.0	2.7	
	22+	.1	.3	.1	.6	.6	.3	.4	.2	.0	.0	2.6	
	TOT %	.2	.7	.5	1.3	1.3	1.2	1.1	.4	.0	.0	6.7	
5<10	0-3	.1	.0	.0	.0	.1	.1	.0	.1	.0	.5	.9	
	4-10	.6	.6	.6	.9	1.2	1.2	1.0	.9	.0	.0	7.0	
	11-21	1.2	1.0	1.1	1.2	2.1	3.0	3.0	1.8	.0	.0	14.5	
	22+	1.2	.8	.4	.5	.8	1.2	2.5	1.5	.0	.0	8.7	
	TOT %	3.1	2.4	2.0	2.5	4.1	5.4	6.6	4.3	.0	.5	31.1	
10+	0-3	.1	.1	.1	.2	.1	.2	.2	.1	.0	.5	1.7	
	4-10	1.7	1.2	.9	1.4	1.3	2.2	3.1	2.6	.0	.0	14.4	
	11-21	2.3	1.0	1.3	1.2	2.0	4.6	6.1	4.8	.0	.0	29.3	
	22+	1.2	.3	.5	.1	.5	1.4	4.9	2.7	.0	.0	11.7	
	TOT %	5.4	2.6	2.8	2.9	4.0	8.5	14.2	10.2	.0	.5	51.1	
TOT OBS													2888
TOT PCT		8.9	6.4	6.1	8.6	12.4	17.8	23.3	15.3	.0	1.4	100.0	

OCTOBER

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1873-1970AREA 0005 PLACENTIA BAY SOUTH
45.0N 94.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	190 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	6.7	.0	2.1	8.5	20.6	13.3	2.5	1.3	1.0	1.9	58.5	41.5	520
06009	8.0	.0	1.9	7.1	22.9	12.8	2.9	.8	.4	2.5	59.5	40.5	477
12015	9.4	.2	2.1	9.6	20.8	15.0	3.8	.8	.8	1.5	64.0	36.0	480
18021	5.4	.4	3.3	9.1	21.0	15.6	1.9	1.0	1.0	2.7	61.5	38.5	514
TOT	146	7	47	171	424	282	95	20	16	43	1211	780	1991
PCT	7.3	.4	2.4	8.6	21.3	14.2	2.8	1.0	.8	2.2	60.8	39.2	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	6.8	1.2	1.4	7.3	36.2	47.0	812
06009	5.3	1.9	2.0	6.3	29.7	53.9	688
12015	8.4	2.9	4.2	6.7	27.0	50.7	734
18021	5.1	1.5	3.0	6.4	30.9	53.2	673
TOT	195	94	77	194	904	1483	2907
PCT	6.7	1.9	2.6	6.7	31.1	51.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	6.8	10.9	25.3	34.7	40.0	513
06009	6.4	11.3	23.9	38.0	38.2	469
12015	9.3	13.3	28.5	37.8	33.8	474
18021	5.3	9.5	23.3	40.0	36.7	507
TOT	145	220	495	738	730	1963
PCT	7.4	11.2	25.2	37.6	37.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT REQ
65/63	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
60/64	.0	.0	.0	.1	.1	.2	.5	.8	27	1.6
55/59	.0	.0	.0	.1	.4	1.4	3.6	5.7	192	11.2
50/54	.0	.0	.1	.6	3.1	4.7	13.0	16.1	644	37.6
45/49	.0	.0	.3	.9	3.6	8.6	10.2	10.9	589	34.4
40/44	.0	.0	.1	.8	3.0	9.7	3.2	2.7	220	12.9
35/39	.0	.0	.0	.2	.8	.2	.4	.5	36	2.1
30/34	.0	.0	.0	.0	.1	.1	.0	.0	2	.1
TOTAL	0	0	7	44	184	324	530	621	1711	100.0
PCT	.0	.0	.4	2.6	10.8	18.9	31.0	36.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
60/64	.0	.0	.0	.2	.5	.6	.2	.8	.0	.0
55/59	.2	.1	.3	1.2	3.2	3.1	2.1	.9	.0	.1
50/54	1.9	1.5	2.7	4.2	5.5	8.1	8.8	4.7	.0	.4
45/49	3.5	3.6	2.9	2.7	2.6	4.5	9.1	5.2	.0	.3
40/44	2.9	1.2	.6	.4	.7	.5	2.7	3.8	.0	.2
35/39	.9	.2	.1	.0	.0	.0	.4	.6	.0	.0
30/34	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
TOTAL	9.4	6.5	6.5	8.6	12.6	16.8	23.3	15.3	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	63	60	57	49	41	37	35	49.2	936
06009	64	59	57	50	41	36	33	49.3	749
12015	64	61	59	50	42	38	35	50.4	646
18021	67	62	59	50	42	38	35	50.3	723
TOT	67	61	58	50	41	38	33	49.8	3254

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR									
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL	
00003	.0	3.2	10.6	17.8	28.7	39.7	84	471	085
06009	.0	1.7	9.0	21.5	33.0	34.7	84	409	
12015	.0	2.8	9.6	18.8	32.7	36.0	84	425	
18021	.0	4.1	13.7	18.0	30.2	34.1	83	417	
TOT	0	51	185	327	535	624	84	1722	

OCTOBER

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1873-1970AREA 0003 PLACENTIA BAY SOUTH
45.9N 54.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	51 56	57 60	61 64	65 68	TOT	N FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	*	.0	*	2	.0	.1
14/16	.0	.0	.0	.0	.0	*	.0	*	.0	2	.0	.1
11/13	.0	.0	.0	*	.1	.1	.0	.1	.0	7	*	.3
9/10	.0	.0	.0	.1	.1	.4	.2	.1	.0	20	.1	.8
7/8	.0	.0	.0	.1	.5	.8	.4	.2	.0	43	.3	1.7
6	.0	.0	.0	.1	.8	1.4	.6	*	*	67	.7	2.3
5	.0	.0	.0	.3	1.3	1.4	.7	.1	.0	83	1.0	2.8
4	.0	.0	*	.4	3.0	1.7	.9	.1	.0	135	1.0	5.1
3	.0	*	.1	.9	3.4	2.3	.8	.1	.0	169	1.3	6.4
2	.0	.0	.2	2.2	3.5	2.5	.9	.0	.0	205	2.0	7.4
1	.0	*	.5	1.7	4.1	2.6	.4	*	.0	206	1.7	7.6
0	.0	.0	.3	3.4	4.5	1.1	.2	.0	.0	210	1.2	8.3
-1	.0	.1	1.2	3.4	3.4	1.3	.2	*	.0	217	.8	9.1
-2	.0	.2	2.0	3.3	2.7	1.0	.2	.0	.0	206	.7	8.6
-3	.0	.2	1.3	2.0	1.8	1.0	.0	.0	.0	139	.3	6.0
-4	.0	.4	1.3	2.3	1.5	.4	.2	.0	.0	133	.4	5.7
-5	.0	.3	1.0	2.0	1.0	.3	.0	*	.0	102	.1	4.5
-6	*	.5	.8	1.0	.5	.1	.0	.0	.0	64	*	2.9
-7/-8	.4	.7	1.4	1.4	.4	.2	*	.0	.0	30	.1	4.4
-9/-10	.2	.4	1.0	.7	.1	*	.0	.0	.0	53	.0	2.5
-11/-13	.1	.3	.6	.1	.1	*	.0	.0	.0	29	.0	1.3
-14/-16	.0	.0	.1	.1	*	.0	.0	.0	.0	6	.0	.3
-17/-19	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	16	72	263	565	723	412	128	23	2	2204	261	1943
PCT	.7	3.3	11.9	25.0	32.8	18.7	5.8	1.0	.1	100.0	11.8	88.2

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.1	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3
1-2	.1	.8	.0	.0	.0	.0	.9	.0	.9	.2	.0	.0	.0	1.1
3-4	.0	.6	2.0	.0	.0	.0	2.5	.0	.3	.9	.0	.0	.0	1.2
5-6	.0	.0	1.2	.1	.0	.0	1.3	.0	.0	.3	.1	.0	.0	.5
7	.0	.0	.4	.2	.0	.0	.6	.0	.0	*	.3	.0	.0	.3
8-9	.0	.0	.0	.4	.3	.0	.7	.0	.0	.1	.3	.1	.0	.6
10-11	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	*	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.4	3.5	.9	.6	.0	6.5	.1	1.3	1.6	1.1	.3	.0	4.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.2	.0	.0	.0	.0	.2	.2	.6	.0	.0	.0	.0	.8
1-2	.0	.7	.4	.0	.0	.0	1.1	.0	1.5	.8	.0	.0	.0	2.3
3-4	.0	.1	.8	.1	.0	.0	1.0	.0	.5	1.4	*	.0	.0	1.9
5-6	.0	.1	.6	.3	.0	.0	.9	.0	*	1.3	.3	.0	.0	1.7
7	.0	.0	.1	.2	.0	.0	.4	.0	.1	.1	.5	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	1.8	.7	.1	.0	3.8	.2	2.8	3.7	1.7	.1	.0	8.4

PERIOD: (OVER-ALL) 1963-1970

OCTOBER

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	.3	.0	.0	.0	.0	.6	.1	.2	.0	.0	.0	.0	.3	
1-2	.0	1.9	.9	.0	.0	.0	2.8	.1	3.1	.9	.0	.0	.0	4.1	
3-4	.0	1.8	1.6	.9	.0	.0	4.3	.0	1.8	3.2	.3	.0	.0	5.2	
5-6	.0	.3	1.8	.5	.0	.0	2.6	.0	.6	2.4	.4	.0	.0	3.4	
7	.0	.0	1.2	1.1	.1	.0	2.4	.0	.8	2.0	1.3	.0	.0	3.3	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.1	1.1	.7	.0	.1	2.1	
10-11	.0	.0	.1	.3	.0	.0	.4	.0	.0	.6	.9	.0	.0	1.5	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.8	.2	.0	.0	.4	
13-16	.0	.0	.1	.3	.3	.0	.7	.0	.1	.8	.6	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	4.3	5.9	3.2	.4	.0	14.0	.3	5.9	10.3	4.4	.2	.1	21.2	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.3	2.4	1.1	.0	.0	.0	3.8	.0	.8	.9	.0	.0	.0	.0	1.7	
3-4	.0	2.3	2.8	.4	.0	.0	5.6	.0	1.0	1.6	.3	.0	.0	.0	2.9	
5-6	.0	.1	2.9	1.9	.0	.0	4.8	.0	.3	2.0	.6	.0	.0	.0	3.0	
7	.0	.1	3.1	2.4	.5	.0	6.1	.0	.0	1.4	1.2	.0	.0	.0	2.6	
8-9	.0	.0	1.2	1.3	.1	.0	2.7	.0	.0	.4	.8	.0	.1	.1	1.3	
10-11	.0	.0	.6	1.8	.0	.0	2.4	.0	.0	.8	.2	.1	.1	.2	.3	
12	.0	.0	.1	.6	.4	.0	1.0	.0	.0	.0	.3	.0	.0	.0	.3	
13-16	.0	.0	.0	.2	.1	.0	.4	.0	.0	.0	.3	.0	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	5.5	11.7	6.6	1.3	.0	27.4	.4	2.1	6.3	3.8	.2	.3	12.7	98.5	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.3	2.2	.0	.0	.0	.0	4.5	
1-2	.6	12.0	5.1	.0	.0	.0	17.6	
3-4	.0	8.4	14.2	2.1	.0	.0	24.7	
5-6	.0	1.4	12.5	4.3	.0	.0	18.2	
7	.0	.3	8.4	7.2	.7	.0	16.5	
8-9	.0	.1	2.9	3.7	.6	.3	7.6	
10-11	.0	.0	1.4	3.4	.3	.1	5.2	
12	.0	.0	.1	1.5	.7	.0	2.3	
13-16	.0	.1	.1	1.8	.6	.0	2.6	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.9	24.5	44.8	24.2	3.2	.4	100.0	726

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	6.7	13.3	8.9	4.1	1.2	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	597	4
6-7	.1	.7	5.5	7.9	7.2	4.9	2.2	.8	1.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	508	6
8-9	.0	.4	.8	1.7	3.2	3.0	3.0	2.5	1.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	270	9
10-11	.0	.1	.2	.2	.6	.7	.7	.4	.7	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	65	10
12-13	.0	.0	.1	.0	.0	.1	.4	.2	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	16	12
>13	.0	.0	.0	.1	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	13
INDEX	1.4	3.1	3.6	1.9	1.3	.6	.2	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	204	4
TOTAL	36	181	397	345	273	175	118	67	59	8	6	1	2	0	0	0	0	0	0	1668	6
PCT	2.2	10.9	23.8	20.7	16.4	10.5	7.1	4.0	3.5	.5	.4	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1875-1970

NOVEMBER

AREA 0005 PLACENTIA BAY SOUTH
43.9N 54.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.7	1.4	3.0	.0	1.4	.0	.3	9.2	2.4	.0	2.0	.2	.0	.0	86.2
NE	9.8	2.2	2.5	.0	2.5	.0	.0	15.9	3.2	.0	6.6	1.2	.5	.0	72.7
E	9.6	.9	11.9	.0	1.1	.0	.0	21.6	2.5	.0	17.5	.0	.4	.0	58.0
SE	13.9	1.1	7.8	.0	.1	.0	.0	20.4	3.1	.0	25.8	.1	.7	.0	50.0
S	10.9	1.8	7.2	.0	.0	.3	.0	18.4	2.8	.3	18.6	1.1	1.8	.0	57.1
SW	8.4	1.5	6.0	.0	.2	.0	.1	15.2	3.5	.0	12.5	.4	.9	.0	67.5
W	3.7	1.6	1.4	.0	3.5	.2	.6	10.3	4.7	.0	4.7	.8	1.4	.0	78.1
NW	3.9	1.3	.7	.0	2.8	.0	.4	8.6	2.3	.0	1.5	.3	.1	.0	87.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	12.0	4.0	32.0	4.0	.0	.0	48.0
TOT PCT	7.1	1.5	4.3	.0	1.7	.1	.2	13.8	3.3	.1	10.1	.6	.8	.0	71.4
TOT OBS:	2645														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	6.5	1.7	4.0	.0	1.4	.0	.3	13.0	2.7	.1	10.1	.6	.3	.0	73.1
06009	8.1	1.7	5.8	.0	1.4	.0	.3	15.3	4.0	.2	7.6	.6	.5	.0	71.9
12015	5.8	1.4	4.8	.0	1.9	.0	.3	13.5	3.9	.0	11.6	.6	1.3	.0	69.2
18021	7.7	1.1	2.9	.0	2.1	.3	.0	13.1	2.6	.0	11.2	.3	1.3	.0	71.5
TOT PCT TOT OBS:	7.0 2485	1.5	4.4	.0	1.7	.1	.2	13.7	3.2	.1	10.1	.6	.8	.0	71.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	2.6	5.2	2.1	.5	*		10.7	16.7		11.4	12.1	10.9	12.8	10.9	10.2	7.8	9.9
NE	.2	2.2	3.2	1.6	.5	.1		7.8	16.8		8.4	5.5	7.9	9.0	7.5	8.4	8.0	8.0
E	.2	2.2	3.4	2.2	.4	*		8.4	17.3		7.7	5.6	8.1	10.0	9.4	7.5	10.0	8.8
SE	.2	2.4	3.3	2.2	.5	.1		8.6	18.1		8.7	9.8	7.5	6.3	10.2	9.1	8.4	8.0
S	.3	3.6	4.8	3.7	.5	.1		13.0	17.2		12.4	13.7	13.6	10.2	12.9	11.9	16.3	10.9
SW	.2	3.2	5.4	2.5	.4	.1		11.9	16.4		11.4	10.2	12.6	14.9	10.6	11.0	12.3	13.8
W	.4	5.1	7.4	7.1	1.4	.2		21.6	19.0		22.1	24.2	22.2	20.0	19.0	21.7	22.3	21.5
NW	.2	3.7	7.1	5.0	.8	.1		16.9	18.6		16.6	18.0	16.1	16.7	18.5	19.4	13.8	18.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0							1.0	.0		1.2	.9	1.1	.0	1.0	.8	1.3	.8
TOT OBS	103	839	1338	886	167	24	3357		17.6		667	338	540	252	593	236	467	264
TOT PCT	3.1	25.0	39.9	26.4	5.0	.7		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00					06	12	18	
										00	06	12	18
										03	09	15	21
N	1.0	4.3	4.2	1.0	.1		10.7	16.7	11.6	11.5	10.7	8.6	
NE	.9	3.3	2.6	1.0	.1		7.8	16.8	7.4	8.3	7.7	8.0	
E	1.0	3.2	3.1	1.1	*		8.4	17.3	7.0	8.7	8.8	9.5	
SE	.8	3.1	3.3	1.1	.3		8.6	18.1	9.1	7.1	9.9	8.2	
S	1.6	5.0	4.7	1.5	.2		13.0	17.2	12.9	12.5	12.6	14.3	
SW	1.4	5.4	3.8	1.1	.2		11.9	16.4	11.0	13.4	10.7	12.9	
W	2.4	7.2	7.1	4.4	.5		21.6	19.0	22.8	21.5	19.8	22.0	
NW	1.3	5.9	7.1	2.3	.4		16.9	18.6	17.1	16.3	18.8	15.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.0						1.0	.0	1.1	.8	1.0	1.1	
TOT OBS	385	1254	1203	456	59	3357		17.6	1005	792	829	731	
TOT PCT	11.5	37.4	35.8	13.6	1.8		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.1	2.1	24.6	40.0	27.4	4.2	.7	17.5	100.0	1005
06009	.8	2.3	27.3	41.0	23.2	4.5	.9	16.8	100.0	792
12015	1.0	2.9	25.6	38.4	27.5	4.1	.6	17.3	100.0	829
18021	1.1	1.0	22.4	40.1	27.2	7.5	.7	18.7	100.0	731
TOT	.3	.70	839	1338	886	167	.24	17.6		3357
PCT	1.0	2.1	25.0	39.9	26.4	5.0	.7	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	1.2	2.6	4.5		6.0
NE	.8	.4	1.8	5.7		6.8
E	.5	.4	1.8	6.7		7.1
SE	.5	.5	1.5	6.7		7.0
S	1.2	.8	3.1	9.0		6.7
SW	1.5	.9	2.6	6.5		6.2
W	3.4	2.2	7.2	8.2		5.7
NW	3.0	1.7	5.3	5.3		5.5
VAR	.0	.0	.0	.0		.0
CALM	.3	.0	.2	.5		5.2
TOT OBS	234	153	484	987	1858	6.3
TOT PCT	12.6	8.2	26.0	53.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIRECTION												
	000	150	300	600	1000	2000	3000	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.2	.1	.3	1.3	2.3	1.5	.4	.2	.1	.0	3.2	
NE	.4	.4	.4	1.1	2.5	1.6	.6	.1	.1	.1	1.9	
E	1.4	.1	.4	1.1	2.8	1.2	.6	.1	.1	.1	1.5	
SE	2.0	.1	.1	1.5	1.6	1.0	.4	.1	.1	.2	2.1	
S	2.6	.3	.4	1.5	2.2	2.0	.6	.1	.2	.5	3.7	
SW	1.3	.1	.3	.8	2.4	1.9	.4	.1	.2	.3	3.7	
W	.5	.0	.7	2.1	4.6	3.9	.4	.3	.2	.3	8.1	
NW	.3	.2	1.6	3.9	2.3	.6	.1	.1	.0	.0	6.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.1	.2	.1	.1	.0	.0	.0	.0	.3	
TOT OBS	166	16	50	205	418	789	74	23	19	26	572	1858
TOT PCT	8.9	.8	2.7	11.0	22.5	15.6	4.0	1.2	1.0	1.4	30.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4
>5000	2.3	3.4	3.5	3.5	3.6	3.6	3.6	3.6
>3500	4.8	7.2	7.4	7.5	7.5	7.5	7.6	7.6
>2000	13.8	21.5	22.5	22.8	22.9	22.9	22.9	23.0
>1000	25.5	40.9	43.9	45.0	45.1	45.3	45.4	45.5
>600	30.6	49.1	54.0	55.6	56.0	56.2	56.4	56.5
>300	31.5	50.8	56.2	57.9	58.6	58.9	59.1	59.2
>150	31.8	51.1	56.9	58.8	59.4	59.7	60.0	60.1
>0	32.0	51.8	58.1	60.3	62.0	63.5	65.5	68.9
TOTAL	596	966	1083	1124	1156	1183	1276	1285

TOTAL NUMBER OF OBS: 1864

PCT FREQ NH <5/8: 31.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

n	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.7	4.0	9.1	5.4	4.9	5.7	9.9	8.5	37.0	7.9	1981

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.1	.1	.3	*	.1	*	.0	.0	.8	
	NO PCP	*	.1	1.0	1.4	1.7	.9	.2	.1	.0	.3	5.7	
	TOT %	*	.2	1.1	1.5	2.0	.9	.3	.1	.0	.3	6.4	
1/2<1	PCP	.1	.1	.1	.1	*	.1	.1	*	.0	.0	.6	
	NO PCP	.0	.1	.2	.4	.4	.1	.1	*	.0	*	1.5	
	TOT %	.1	.2	.4	.6	.4	.2	.2	*	.0	*	2.1	
1<2	PCP	.0	.2	.2	.2	.3	.3	.2	.1	.0	.0	1.3	
	NO PCP	*	.1	.1	.1	.2	.2	.1	.0	.0	*	.8	
	TOT %	*	.3	.3	.3	.5	.5	.3	.1	.0	*	2.2	
2<5	PCP	.2	.3	.6	.6	.7	.4	.3	.1	.0	.0	3.2	
	NO PCP	.1	.2	.4	.5	.7	.6	.8	.1	.0	*	3.5	
	TOT %	.3	.5	1.0	1.2	1.4	.9	1.1	.2	.0	*	6.7	
5<10	PCP	.6	.5	.7	.7	.9	.8	1.3	.8	.0	.0	6.3	
	NO PCP	2.2	1.9	2.2	1.8	4.0	3.1	5.2	4.2	.0	.1	24.8	
	TOT %	2.8	2.4	3.0	2.6	4.9	4.0	6.5	5.0	.0	.1	31.1	
10+	PCP	.2	.1	.2	.1	.2	.2	.3	.4	.0	.0	1.7	
	NO PCP	7.8	4.5	3.1	2.5	3.9	4.7	12.7	10.1	.0	.5	49.8	
	TOT %	8.0	4.6	3.3	2.6	4.1	4.9	13.1	10.5	.0	.5	51.5	
TOT OBS													
TOT PCT													
		11.2	8.2	9.1	8.7	13.4	11.2	21.4	15.9	.0	.9	100.0	2844

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.1	*	.1	.0	.0	.0	.0	.2	.4	
	4-10	*	*	.3	.7	.5	.5	.2	*	.0		2.2	
	11-21	*	*	.6	.5	.8	.6	.3	.1	.0		2.8	
	22+	.0	.1	.1	.2	.7	.2	.0	.0	.0		1.3	
	TOT %	*	.2	1.1	1.4	2.0	1.2	.5	.1	.0	.2	6.7	
1/2<1	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	*	.1	
	4-10	*	*	*	.2	.1	.1	*	.0	.0		.4	
	11-21	.0	.1	.1	.2	.2	.1	.1	*	.0		.8	
	22+	*	*	.2	.2	.1	*	*	*	.0		.6	
	TOT %	.1	.2	.3	.6	.4	.2	.2	*	.0	*	1.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.1	.1	
	4-10	*	.1	*	.1	.1	*	.0	.0	.0		.3	
	11-21	*	.1	.1	.1	.1	.2	.2	*	.0		.9	
	22+	.0	.1	.1	.2	.3	.1	.1	.1	.0		1.0	
	TOT %	.1	.3	.3	.4	.5	.3	.3	.1	.0	.1	2.3	
2<5	0-3	*	.0	*	.0	*	.0	.0	*	.0	*	.1	
	4-10	.1	*	.1	.2	.2	.1	.3	.2	.0		1.1	
	11-21	.1	.2	.4	.5	.4	.4	.4	.2	.0		2.6	
	22+	.1	.2	.3	.6	.9	.5	.5	.1	.0		3.2	
	TOT %	.3	.5	.9	1.2	1.5	1.0	1.2	.4	.0	*	7.1	
5<10	0-3	.1	.0	.0	*	.1	.1	.1	.1	.0	.1	.5	
	4-10	.6	.5	.6	.3	.9	.7	1.3	.7	.0		5.7	
	11-21	1.0	.9	.7	1.0	1.9	1.8	1.9	2.0	.0		11.2	
	22+	1.0	.8	1.4	1.1	1.9	1.4	3.1	2.0	.0		12.6	
	TOT %	2.7	2.2	2.7	2.5	4.8	3.9	6.5	4.8	.0	.1	30.1	
10+	0-3	.3	.2	.1	.1	.1	.1	.3	.1	.0	.5	1.7	
	4-10	1.8	1.5	1.1	1.1	1.6	1.6	3.1	2.6	.0		14.4	
	11-21	4.1	1.9	1.6	.9	1.6	2.4	4.6	4.5	.0		21.6	
	22+	1.6	.7	.5	.6	.6	1.0	5.3	3.9	.0		14.2	
	TOT %	7.8	4.2	3.2	2.7	3.9	5.2	13.3	11.1	.0	.5	51.9	
TOT OBS													
TOT PCT													
		11.0	7.6	8.5	8.7	13.0	11.8	21.9	16.6	.0	.9	100.0	2892

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PERIOD: (PRIMARY) 1933-1970
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH $\geq 4/8$) AND
OCCURRENCE OF NH $< 5/8$ BY HOUR

HOUR (GMT)	000 149	150 299	200 599	300 999	400 1999	1000 3499	2000 4999	3000 6499	5000 7999	6000 8000+	TOTAL	NH $< 5/8$ ANY HGT	TOTAL OBS
00003	9.1	.9	3.5	6.7	20.1	14.9	3.5	1.1	1.5	1.9	63.3	36.7	537
06009	8.4	1.5	3.0	11.0	20.3	15.1	4.3	1.1	.6	1.3	66.6	33.4	464
12015	8.0	.5	2.5	14.9	23.4	15.6	3.2	1.4	.7	.9	71.3	28.7	435
18021	9.3	.4	1.5	11.2	24.8	15.3	4.4	1.3	1.1	1.3	70.6	29.4	472
TOT	167	16	51	205	421	290	74	23	19	26	1292	616	1908
PCT	8.8	.8	2.7	10.7	22.1	15.2	3.9	1.2	1.0	1.4	67.7	32.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	$< 1/2$	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	7.4	2.2	2.7	5.9	35.7	46.5	891
06009	5.9	1.2	1.1	6.6	28.0	57.2	738
12015	6.3	2.6	2.8	8.3	27.4	52.6	720
18021	7.6	1.8	2.9	7.3	26.5	53.9	683
TOT	206	60	68	212	903	1583	3032
PCT	6.8	2.0	2.7	7.0	29.8	52.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH $\geq 4/8$) BY HOUR

HOUR (GMT)	< 150 $< 50YD$	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH $< 5/8$ AND 5+	TOTAL OBS
00003	9.2	14.4	24.6	41.1	34.4	521
06009	8.8	14.3	29.7	39.0	31.3	454
12015	8.0	12.0	32.7	40.5	26.8	425
18021	9.7	12.9	29.3	43.1	27.6	464
TOT	167	251	538	763	563	1864
PCT	9.0	13.5	28.9	40.9	30.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	*	.0	.0	.0	.0	1	*
60/64	.0	.0	.0	*	.0	.0	.0	.0	1	*
55/59	.0	.0	.0	.0	.0	*	.3	1.1	31	1.5
50/54	.0	*	.0	.0	.4	.5	2.6	6.3	201	9.8
45/49	.0	*	*	.2	1.4	6.7	8.5	14.3	641	11.3
40/44	.0	.0	.0	.5	4.7	8.6	12.0	10.1	734	15.8
35/39	.0	.0	.1	.6	3.3	4.1	5.5	3.6	352	17.2
30/34	.0	.0	.0	*	.8	1.0	.7	1.1	77	3.8
25/29	.0	.0	.0	.0	.0	.1	*	.3	10	.5
TOTAL	0	2	3	30	218	433	608	754	2048	100.0
PCT	.0	.1	.1	1.5	10.6	21.1	29.7	36.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.0	.0	.0	.0	.0	*	*	.0	.0
60/64	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
55/59	.0	*	*	.2	.9	.2	.1	.0	.0	.0
50/54	.1	.2	.3	1.8	4.0	2.0	1.0	.3	.0	.1
45/49	2.9	1.5	2.5	3.9	5.8	4.7	6.5	3.2	.0	.3
40/44	5.2	3.6	3.9	2.3	2.3	3.1	8.4	6.8	.0	.2
35/39	3.1	2.2	1.3	.6	.5	1.0	4.6	3.9	.0	.0
30/34	.4	.1	.2	.1	.0	.2	1.2	1.5	.0	.0
25/29	*	*	.0	.0	.0	.0	.1	.3	.0	.0
TOTAL	11.7	7.7	8.3	8.9	13.5	11.3	22.0	16.0	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	57	55	51	43	34	30	26	42.6	1005
06009	59	55	52	43	34	30	25	42.9	796
12015	58	56	53	43	33	27	26	43.2	824
18021	66	55	52	44	35	29	24	43.7	730
TOT	66	55	52	43	34	29	24	43.1	3355

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.9	10.6	20.9	30.0	36.5	84	616		
06009	.0	2.3	9.8	21.2	30.8	35.9	84	523		
12015	.0	1.3	11.6	21.1	27.6	38.4	84	474		
18021	.0	1.5	12.0	22.7	28.9	34.9	83	467		
TOT	0	37	227	446	612	758	84	2080		

NOVEMBER

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1875-1970

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.2W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THP OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 24	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	.0	.0	.2	.1	.1	*	11	.1	.3
9/10	.0	.0	.0	.0	.0	.2	.3	.2	*	.0	17	.2	.5
7/8	.0	.0	.0	.0	.0	.8	.8	.6	.1	.0	35	.7	1.6
6	.0	.0	.0	.1	.2	.7	.7	.6	*	.0	56	.7	1.7
5	.0	.0	.0	*	.4	1.3	1.1	.5	*	.0	82	1.2	2.2
4	.0	.0	.0	.0	.8	1.5	1.3	.2	*	.0	93	1.1	2.8
3	.0	.0	.0	.2	1.3	2.2	1.6	.4	.0	.0	136	1.0	4.7
2	.0	.0	.0	.3	1.3	3.0	1.3	.2	.1	.0	150	.8	5.4
1	.0	.0	*	.8	2.2	3.4	1.2	*	.0	.0	186	1.0	6.7
0	.0	.0	.2	1.4	3.5	4.0	.9	.2	.0	.0	246	.8	9.4
-1	.0	.0	.1	1.6	3.8	2.4	.7	.0	.0	.0	207	.5	8.0
-2	.0	.1	.3	2.6	3.7	2.3	.4	.0	*	.0	229	.3	9.2
-3	.0	*	.7	1.9	3.0	2.2	.1	.1	.0	.0	195	.4	7.7
-4	.0	.0	.7	1.8	2.5	.9	.1	.0	.0	.0	146	.1	6.0
-5	.0	*	1.2	2.4	2.0	1.0	*	.0	.0	.0	162	.1	6.6
-6	.0	.3	.9	1.7	1.8	.5	*	.0	.0	.0	125	*	5.1
-7/-8	.7	.5	2.1	2.9	1.3	.7	.0	.0	.0	.0	187	.1	7.6
-9/-10	.1	.5	.9	1.1	.7	.1	.0	.0	.0	.0	81	.1	3.2
-11/-13	.0	.2	.7	.4	.2	*	.0	.0	.0	.0	39	.0	1.6
-14/-16	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	9	.0	.4
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	*		187	696	658	263	73	11	1		2415	9.2	2192
PCT	.4	47	7.7	19.5	28.8	27.2	10.9	3.0	.5	*	100.0	9.2	90.8

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	N	22-33	34-47	48+	PCT	1-3	4-10	11-21	NE	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.2
1-2	.0	.4	.0	.0	.0	.0	.0	.8	.0	1.2	.2	.0	.0	.0	.0	1.4
3-4	.2	.3	1.1	.2	.0	.0	.0	1.7	.7	.3	2.0	.2	.0	.0	.0	2.6
5-6	.0	.0	1.0	.4	.2	.0	.0	1.6	.0	.1	.7	.4	.0	.0	.0	1.2
7	.0	.0	.9	.3	.2	.0	.0	1.3	.0	.0	1.0	.5	.0	.0	.0	1.5
8-9	.0	.0	.2	.1	.2	.0	.0	.5	.0	.0	.4	.2	.3	.0	.0	.9
10-11	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	*	*	.0	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.5	.0	.0	.6
13-16	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.8	3.8	1.2	.5	.0	.0	6.5	.2	1.7	4.3	1.4	1.0	.0	.0	8.6

HGT	1-3	4-10	11-21	E	22-33	34-47	48+	PCT	1-3	4-10	11-21	SE	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.0	.3	.0	.6	.0	.0	.0	.0	.0	.6
1-2	.0	.8	.6	.0	.0	.0	.0	1.3	.0	1.9	.8	.0	.0	.0	.0	2.7
3-4	.0	1.0	2.1	.2	.0	.0	.0	3.2	.0	1.1	.2	*	.0	.0	.0	1.4
5-6	.0	.4	.8	.6	.0	.0	.0	1.8	.0	.3	1.8	.5	.0	.0	.0	2.6
7	.0	.2	.8	.9	.2	.0	.0	2.1	.0	.0	.2	.7	*	.0	.0	1.0
8-9	.0	.0	.6	.2	.0	.0	.0	.8	.0	.0	.3	.5	.0	.0	.0	.8
10-11	.0	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.5	.0	.0	.0	.5
12	.0	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.7	.0	.0	.8
17-19	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.2	*	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.4	5.0	2.1	.3	.1	.0	10.1	.0	3.9	3.3	2.7	.9	*	.0	10.9

PERIOD: (OVER-ALL) 1963-1970

NOVEMBER

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.9	.1	.0	.0	.0		1.0	.1	.4	*	.0	.0	.0		.5
1-2	.2	2.2	.7	.0	.0	.0		3.1	.0	1.4	*	.0	.0	.0		1.4
3-4	.0	1.0	1.5	.3	.0	.0		2.8	.0	.8	1.1	.0	.0	.0		1.9
5-6	.0	.6	2.5	.2	.0	.0		3.2	.0	*	.9	.3	.0	.0		1.2
7	.0	.0	1.7	1.0	.3	.0		3.0	.0	.0	.8	.1	.3	.0		1.2
8-9	.0	.0	.5	.6	.0	.1		1.3	.0	.0	.4	.6	.4	*		1.5
10-11	.0	.0	.0	.6	.0	.0		.6	.0	.0	.3	.4	.0	.2		.8
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.4	.0	.0		.4
13-16	.0	.0	.0	.6	.1	.0		.8	.0	.0	.0	*	*	.0		.1
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	*	*		.1
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	4.7	7.0	3.3	.4	.1		15.7	.1	2.6	3.6	1.8	.8	.2		9.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	1.3	.0	.0	.0	.0		1.5	.0	.6	.0	.0	.0	.0		.6	
1-2	.2	1.4	.4	.0	.0	.0		2.0	.0	.8	.9	.0	.0	.0		1.6	
3-4	.0	1.6	4.1	.6	.0	.0		6.2	.0	1.2	2.1	.4	.0	.0		3.7	
5-6	.0	.2	2.4	1.1	.0	.0		3.6	.0	.0	2.1	1.2	.0	.0		3.3	
7	.0	.0	1.5	1.5	.0	.0		2.9	.0	.0	1.3	.9	.0	.0		2.2	
8-9	.0	.1	.7	.8	.9	.2		2.1	.0	*	.1	1.2	*	.0		1.3	
10-11	.0	.0	.3	1.0	.3	.0		1.6	.0	.0	*	.2	.2	.0		.4	
12	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.2	.0	.0		.2	
13-16	.0	.0	.0	.9	.8	.0		1.7	.0	.0	.0	.4	.4	.0		.8	
17-19	.0	.0	.0	.0	.4	.1		.6	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.2	.2		.3	.0	.0	.0	.0	.3	.2		.5	
23-25	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.2	.0		.2	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.4	4.5	9.4	6.1	2.1	.4		23.0	.0	2.6	6.5	4.3	1.1	.2		14.7	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.1	4.4	.2	.0	.0	.0	6.6	
1-2	.3	10.0	4.0	.0	.0	.0	14.2	
3-4	.3	7.3	14.1	1.7	.0	.0	23.4	
5-6	.0	1.6	12.2	4.6	.2	.0	18.5	
7	.0	.2	8.2	4.9	.9	.0	15.2	
8-9	.0	.2	3.2	4.3	1.1	.3	9.0	
10-11	.0	.0	.9	7.8	.5	.2	4.4	
12	.0	.0	.0	1.4	.6	.0	2.1	
13-16	.0	.0	.0	2.2	2.2	.0	4.4	
17-19	.0	.0	.0	.0	.6	.3	.9	
20-22	.0	.0	.0	.0	.5	.3	.8	
23-25	.0	.0	.0	.0	.3	.0	.3	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.7	23.6	42.7	22.9	7.0	1.1	100.0	632

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	4.3	11.4	7.5	3.7	1.3	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	460	4
6-7	.0	.5	5.8	7.3	6.5	4.9	3.1	1.6	1.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	523	7
8-9	.0	.1	1.2	1.9	3.0	2.9	2.1	1.5	2.1	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	239	9
10-11	.0	.1	.3	.5	.8	1.0	.8	.7	1.3	.4	.3	.1	.1	.0	.0	.0	.0	.0	.0	99	11
12-13	.0	.0	.1	.1	.2	.1	.3	.4	.3	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	28	11
>13	.0	.0	.0	.0	.2	.1	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	10	16
INDET	2.2	1.8	2.4	2.2	1.6	1.1	.6	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	193	4
TOTAL	46	105	329	304	279	177	112	71	88	13	18	4	6	0	0	0	0	0	0	1552	6
PCT	3.0	6.8	21.2	19.6	18.0	11.4	7.2	4.6	5.7	.8	1.2	.3	.4	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1873-1970

DECEMBER

AREA 0005 PLACENTIA BAY SOUTH
45.9N 94.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WEA
N	2.8	.7	.8	.0	9.7	.2	.3	14.5	4.0	.0	2.0	.0	.6	.4	78.6
NE	4.1	.6	4.8	.0	10.8	.9	1.3	21.2	3.4	.0	6.1	.0	.1	.0	69.2
E	18.2	1.7	4.5	.0	13.2	.0	2.1	17.2	3.1	.0	7.8	.0	.7	.0	51.2
SE	14.4	2.1	5.8	.5	5.2	.0	.0	27.9	6.8	.0	13.5	.0	.8	.5	50.5
S	15.8	1.3	6.5	.0	2.7	.0	.0	25.0	3.4	.0	12.3	.8	1.6	.0	56.8
SW	6.0	2.0	3.4	.0	6.6	.0	.2	17.3	3.8	.2	9.0	1.0	.7	.0	68.3
W	1.3	1.9	.2	.0	16.4	.0	.4	18.5	7.4	.1	2.0	.0	.1	.0	72.1
NW	3.1	.3	.9	.0	13.5	.0	1.2	18.7	5.2	.0	1.3	.3	.0	.0	74.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8	.0	.0	.0	4.8	.0	.0	9.5	.0	.0	.0	.0	.0	.0	90.5
TOT PCT	6.2	1.4	2.5	*	10.8	.1	.6	20.6	5.1	*	5.5	.3	.5	.1	68.1
TOT OBS:	2295														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WEA
00Z03	8.8	1.1	2.0	.0	10.6	.0	.8	22.4	3.6	.2	5.1	.0	.8	.2	67.9
06Z09	6.6	1.2	2.3	.2	9.9	.0	.6	20.0	4.7	.0	5.0	.2	.0	.2	69.9
12Z15	3.7	1.6	2.8	.0	10.8	.4	.4	18.6	5.8	.0	6.4	.5	.5	.2	68.0
18Z21	5.7	1.4	3.0	.0	11.3	.0	.6	20.9	6.1	.0	5.3	.3	.5	.0	67.0
TOT PCT	6.3	1.3	2.5	*	10.7	.1	.6	20.5	5.0	*	5.4	.3	.5	.1	68.1
TOT OBS:	2319														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	2.9	4.8	2.8	.5	.1		11.6	17.8		11.1	11.3	12.7	7.8	12.5	14.7	10.6	11.4
NE	.1	2.0	2.6	2.0	.4	.1		7.2	17.9		7.0	8.1	5.3	8.5	7.9	4.6	8.6	6.3
E	.1	1.2	3.1	1.5	.4	.0		6.3	18.1		5.5	4.7	7.1	6.9	5.7	5.9	6.1	10.8
SE	.2	2.0	4.4	1.9	.6	.1		8.3	17.8		9.4	8.8	8.3	9.5	8.7	7.7	6.7	6.3
S	.2	2.4	4.1	2.1	.5	*		9.4	17.3		9.6	8.7	10.1	6.6	9.4	10.5	9.7	9.2
SW	.2	3.1	6.1	3.5	1.1	.2		14.2	18.7		14.6	16.6	12.8	14.9	13.7	16.5	13.2	14.3
W	.3	3.5	9.1	8.9	3.9	.4		25.9	22.4		26.7	23.7	26.5	26.2	25.3	22.8	27.2	23.6
NW	.3	2.5	7.0	4.8	1.5	.1		16.3	19.9		15.3	15.6	15.0	18.5	16.3	17.0	16.9	17.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9							.9	.0		.7	.5	2.2	1.1	.5	.5	.9	.5
TOT OBS	75	568	1177	796	269	25	2905		19.3		569	215	445	189	564	191	336	196
TOT PCT	2.6	19.6	40.3	27.4	9.3	.9		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	12	15	18
N	1.3	4.6	3.7	1.8	.2		11.6	17.8	11.1	11.2	13.0	10.8	
NE	.7	2.8	2.4	1.2	.1		7.2	17.9	7.3	6.2	7.1	8.0	
E	.5	2.6	2.2	.9	.1		6.3	18.1	5.3	7.0	5.7	7.3	
SE	.9	3.7	2.2	1.3	.2		8.3	17.8	9.3	8.7	8.4	6.6	
S	1.0	3.8	3.3	1.2	.2		9.4	17.3	9.4	9.0	9.7	9.6	
SW	1.1	5.7	4.8	2.0	.5		14.2	18.7	15.1	13.4	14.4	13.5	
W	1.2	7.0	9.7	6.7	1.4		23.9	22.4	26.4	26.4	24.7	26.3	
NW	1.1	4.9	6.8	3.1	.4		16.3	19.9	15.4	16.0	18.5	17.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.9						.9	.0	.6	1.9	.5	.8	
TOT OBS	253	1016	1020	527	89	2905		19.3	784	834	755	732	
TOT PCT	8.7	35.0	35.1	18.1	3.1		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1873-1970

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	.6	1.5	20.0	40.7	29.6	7.1	.4	19.0	100.0	784
0600	1.9	1.4	19.9	43.1	23.2	7.9	.6	18.4	100.0	634
1200	.5	2.4	20.3	38.8	26.5	10.5	1.1	19.4	100.0	755
1800	.8	1.2	18.0	39.2	27.9	11.5	1.4	20.2	100.0	732
TOT	27	48	568	1172	796	269	25	19.3		2905
PCT	.9	1.7	19.6	40.3	27.4	9.3	.9		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	1.2	3.3	6.3		6.3
NE	.6	.3	1.1	5.6		7.0
E	.3	.3	.9	5.0		7.2
SE	.4	.2	1.0	6.5		7.3
S	.8	.2	1.6	6.5		6.9
SW	1.9	1.7	3.2	7.2		6.0
W	2.1	2.0	10.3	11.3		6.3
NW	1.3	1.4	5.7	6.6		6.3
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.3	.4		5.6
TOT OBS	166	153	502	1021	1842	6.5
TOT PCT	9.0	8.3	27.3	55.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIRECTION BY WIND SPEED												
	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.4	.0	.1	1.0	3.6	7.7	.6	.1	.1	.0	3.4	
NE	.7	.0	.2	1.5	2.3	1.3	.2	.0	.1	.0	1.2	
E	.7	.0	.2	.8	1.7	1.1	.3	.1	.1	.0	1.3	
SE	.9	.7	.4	1.2	1.9	1.5	.5	.1	.1	.0	1.3	
S	1.0	.7	.7	1.1	1.9	1.9	.4	.2	.1	.1	1.7	
SW	.8	.1	.4	1.6	3.3	2.1	.5	.1	.0	.4	4.8	
W	.5	.1	.4	4.2	8.8	4.5	.7	.1	.1	.1	7.0	
NW	.2	.1	.8	2.2	4.2	3.2	.5	.4	.1	.0	9.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.1	.0	.2	.3	.1	.0	.0	.1	.3	
TOT OBS	97	19	57	253	514	341	69	21	9	15	1842	
TOT PCT	5.3	.7	3.1	13.7	27.9	18.5	3.7	1.1	.5	.8	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.8	1.2	1.3	1.3	1.3	1.3	1.3	1.3
>5000	1.2	2.2	2.4	2.4	2.4	2.4	2.4	2.4
>3500	3.3	5.5	6.0	6.1	6.1	6.2	6.2	6.2
>2000	13.5	22.8	24.4	24.7	24.8	24.9	25.0	25.0
>1000	27.9	46.9	51.3	52.0	52.3	52.6	52.7	52.7
>600	34.6	57.4	63.8	65.5	66.0	66.4	66.5	66.5
>300	35.4	58.9	65.9	68.0	68.7	69.2	69.5	69.5
>150	35.5	59.2	66.4	68.6	69.2	69.8	70.0	70.0
>0	35.8	60.0	67.7	70.5	71.9	73.1	74.7	75.4
TOTAL	659	1105	1247	1299	1325	1347	1377	1389

TOTAL NUMBER OF OBS: 1842

PCT FREQ NM <5/8: 24.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.6	2.6	6.3	4.8	4.8	5.4	9.8	11.8	44.2	4.6	1974

PERIOD: (PRIMARY) 1934-1970
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DECEMBER

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	.3	.3	.2	.3	.7	.1	.1	.0	.0	1.0	
	NO PCP	.0	.2	.4	.6	.6	.4	.2	.0	.0	.0	2.4	
	TOT %	.7	.4	.7	.8	.9	.8	.2	.1	.0	.0	4.0	
1/2<1	PCP	.0	.1	.2	.3	.1	.7	.2	.0	.0	.0	1.1	
	NO PCP	.0	.2	.1	.2	.2	.4	.2	.1	.0	.0	1.3	
	TOT %	.1	.4	.3	.5	.3	.8	.3	.1	.0	.0	2.9	
1<2	PCP	.7	.1	.3	.3	.2	.7	.2	.2	.0	.0	1.7	
	NO PCP	.1	.0	.0	.4	.3	.3	.2	.1	.0	.0	1.3	
	TOT %	.9	.1	.3	.7	.5	.8	.4	.3	.0	.0	3.2	
2<5	PCP	.4	.3	.5	.8	.7	.8	.0	.0	.0	.0	4.9	
	NO PCP	.3	.4	.2	.6	.6	.8	.0	.4	.0	.0	3.6	
	TOT %	.7	.9	.6	1.4	1.3	1.1	1.9	.9	.0	.0	8.9	
5<10	PCP	.8	.6	.8	.7	1.0	1.8	2.2	1.3	.0	.0	8.4	
	NO PCP	1.7	1.6	1.3	2.0	2.9	3.8	6.0	4.0	.0	.3	25.0	
	TOT %	3.0	2.2	2.1	2.7	3.7	4.8	8.2	5.4	.0	.3	33.4	
10+	PCP	.3	.1	.3	.1	.2	.4	1.3	.0	.0	.0	2.3	
	NO PCP	6.8	3.4	1.9	2.2	2.7	6.0	13.6	7.7	.0	.0	45.0	
	TOT %	7.0	3.9	2.2	2.4	2.9	6.4	14.0	8.3	.0	.0	48.3	
TOT OBS													2308
TOT PCT		12.2	7.5	6.3	8.4	9.7	14.1	25.7	19.2	.0	.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.4	.2	.1	.1	.0	.0	.0	.9	
	11-21	.1	.1	.3	.2	.5	.4	.1	.0	.0	.0	1.8	
	22+	.1	.2	.2	.1	.2	.1	.1	.0	.0	.0	1.2	
	TOT %	.2	.4	.6	.7	1.0	.6	.3	.1	.0	.0	3.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.1	.1	.1	.0	.0	.0	.0	.4	
	11-21	.0	.1	.2	.1	.2	.1	.1	.1	.0	.0	.9	
	22+	.1	.2	.1	.2	.0	.2	.2	.0	.0	.0	1.0	
	TOT %	.1	.3	.2	.4	.2	.5	.4	.1	.0	.0	2.3	
1<2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.0	.1	.0	.1	.0	.1	.0	.0	.3	
	11-21	.1	.1	.3	.3	.2	.2	.1	.1	.0	.0	1.3	
	22+	.2	.0	.1	.1	.2	.2	.3	.2	.0	.0	1.3	
	TOT %	.3	.1	.4	.6	.4	.6	.4	.4	.0	.0	3.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.2	.1	.1	.2	.1	.2	.2	.2	.0	.0	1.3	
	11-21	.3	.4	.4	.5	.5	.5	.4	.5	.0	.0	3.4	
	22+	.2	.4	.2	.7	.6	.5	1.0	.9	.0	.0	3.9	
	TOT %	.6	.9	.8	1.4	1.2	1.2	1.7	1.0	.0	.0	8.8	
5<10	0-3	.0	.1	.0	.1	.1	.1	.0	.1	.0	.3	.8	
	4-10	.9	.4	.5	.3	.8	.9	.2	.7	.0	.0	3.1	
	11-21	1.2	.5	.7	1.0	1.7	2.0	2.4	2.2	.0	.0	11.8	
	22+	1.6	1.0	.8	1.1	1.2	1.6	4.6	2.3	.0	.0	14.2	
	TOT %	3.7	2.0	2.0	2.5	3.7	4.5	7.9	5.3	.0	.3	31.9	
10+	0-3	.2	.1	.1	.0	.0	.1	.2	.1	.0	.5	1.3	
	4-10	2.0	1.3	.6	.8	1.3	1.9	2.2	1.9	.0	.0	11.5	
	11-21	3.4	1.3	1.3	1.1	1.2	2.9	8.3	4.2	.0	.0	21.6	
	22+	1.7	.8	.3	.3	.5	2.1	8.9	2.6	.0	.0	13.5	
	TOT %	7.2	3.4	2.2	2.3	3.0	6.0	13.5	8.7	.0	.5	49.9	
TOT OBS													2627
TOT PCT		12.1	7.2	6.3	8.0	9.5	14.3	26.2	19.6	.0	.9	100.0	

DECEMBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1873-1970

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH \geq 4/8 AND
OCCURRENCE OF NH \leq 3/8 BY HOUR

HOUR (GMT)	000 149	150 249	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH \leq 3/8 ANY HGT	TOTAL OBS
00003	5.1	.4	3.0	11.2	29.9	17.2	3.8	1.7	.4	.6	73.3	26.7	472
06009	6.0	1.0	2.5	12.9	24.1	20.1	2.0	.5	.0	1.5	70.6	29.4	402
12015	4.2	1.3	3.1	14.3	29.7	19.4	4.0	.4	.4	.4	77.3	22.7	454
18021	5.7	.0	3.5	15.5	28.2	17.7	4.6	1.7	.9	.7	76.4	23.6	543
TOT	98	12	57	254	515	346	69	21	9	15	1396	475	1871
PCT	5.2	.6	3.0	13.6	27.5	18.5	3.7	1.1	.5	.8	74.6	25.4	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOUR (GMT)	41/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
00003	3.1	1.4	2.7	9.5	35.0	48.2	705
06009	4.2	2.2	2.9	6.9	33.7	50.5	594
12015	5.0	2.9	4.4	7.8	28.3	51.6	657
18021	3.9	2.7	3.4	10.5	30.9	49.1	696
TOT	103	61	87	232	848	1321	2852
PCT	3.9	2.3	3.1	8.7	32.0	49.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OR
CEILING HGT (FEET) NH \geq 4/8 BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH \leq 3/8 AND 5+	TOTAL OBS
00003	5.2	9.3	26.8	47.8	25.3	402
06009	6.1	10.7	29.2	43.7	27.2	394
12015	4.2	10.0	29.3	48.9	21.8	450
18021	5.8	10.2	31.1	46.7	22.2	537
TOT	98	185	538	864	441	1843
PCT	5.3	10.0	29.2	46.9	23.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT RRPQ
55/59	.0	.0	.0	.0	.0	.1	.1	.0	2	.1
50/54	.0	.1	.0	.0	.1	.1	.4	.8	24	1.5
45/49	.0	.0	.0	.1	.2	.6	2.0	4.4	117	7.2
40/44	.0	.0	.0	.2	1.1	2.4	6.2	10.3	326	20.2
35/39	.0	.0	.0	1.1	3.0	6.4	11.6	12.8	563	34.9
30/34	.0	.0	.0	.4	3.2	5.0	9.8	8.4	435	26.9
25/29	.0	.0	.0	.3	.6	1.8	1.7	3.0	121	7.5
20/24	.0	.0	.1	.0	.1	.4	.2	.7	23	1.4
15/19	.0	.0	.0	.0	.0	.0	.1	.1	3	.2
10/14	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	1	1	34	134	268	520	657	1615	100.0
PCT	.0	.1	.1	2.1	8.3	16.6	32.2	40.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
50/54	.1	.0	.3	.2	.5	.2	.2	.1	.0	.0
45/49	.2	.2	.5	1.4	1.7	2.2	.7	.3	.0	.1
40/44	1.2	1.5	1.2	2.6	3.8	4.2	4.0	1.4	.0	.2
35/39	4.0	2.9	2.4	2.7	2.7	5.1	9.1	5.5	.0	.4
30/34	4.5	2.9	1.9	.9	.6	2.8	8.7	4.5	.0	.2
25/29	1.4	.4	.4	.4	.4	2.8	2.4	.0	.0	.0
20/24	.5	.0	.0	.0	.0	.5	.5	.0	.0	.0
15/19	.4	.0	.0	.0	.0	.1	.1	.0	.0	.0
10/14	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	11.9	8.0	6.3	7.8	9.5	14.8	26.1	14.6	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	58	50	46	36	26	22	14	36.2	771
06009	53	51	46	36	28	24	22	36.5	624
12015	56	51	47	36	27	22	20	36.4	745
18021	58	52	47	37	26	23	18	36.8	729
TOT	58	51	46	36	27	23	14	36.5	2869

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.9	7.0	13.8	33.3	45.0	87			429
06009	.0	3.6	7.0	17.0	30.7	41.8	85			388
12015	.0	3.1	9.2	18.9	32.3	36.5	84			381
18021	.0	1.4	10.0	17.3	32.2	39.0	85			428
TOT	0	36	133	271	523	661	85			1626

DFCEMAER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1873-1970

TABLE 17

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.2W

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	2	.1	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	.0	7	.1	.3
9/10	.0	.0	.0	.0	.0	.0	.0	.4	.4	.4	.1	24	.3	.8
7/8	.0	.0	.0	.0	.0	.0	.2	.6	.8	.3	.1	42	.3	1.9
6	.0	.0	.0	.0	.0	.0	.0	.5	.6	.2	.1	25	.4	.9
5	.0	.0	.0	.0	.0	.1	.3	1.2	.9	.2	.0	34	.6	2.2
4	.0	.0	.0	.0	.0	.0	.8	1.5	.6	.1	.0	57	.5	2.4
3	.0	.0	.0	.0	.1	.3	1.7	1.9	.7	.1	.1	96	.9	4.0
2	.0	.0	.0	.0	.0	.8	1.8	1.4	.7	.2	.0	97	.5	4.5
1	.0	.0	.0	.0	.1	1.0	3.0	2.0	.5	.0	.0	129	.2	6.4
0	.0	.0	.0	.1	.1	2.1	3.6	1.7	.4	.0	.0	157	.3	7.7
-1	.0	.0	.0	.0	.3	2.8	2.8	1.7	.4	.1	.0	157	.4	7.6
-2	.0	.0	.0	.2	.6	2.9	2.4	.9	.4	.0	.0	143	.3	7.0
-3	.0	.0	.1	.1	1.0	2.5	2.0	.6	.1	.1	.1	127	.1	6.4
-4	.0	.0	.1	.3	1.5	3.5	1.9	.5	.1	.0	.0	153	.3	7.3
-5	.0	.0	.0	.3	2.0	2.9	1.7	.1	.0	.0	.0	141	.3	6.9
-6	.0	.0	.0	.6	2.1	2.6	.9	.2	.1	.0	.0	127	.1	6.4
-7/-8	.0	.0	.1	1.3	3.9	2.3	.8	.2	.0	.0	.0	168	.0	8.3
-9/-10	.0	.1	.3	1.7	2.3	1.5	.6	.0	.0	.0	.0	128	.2	6.4
-11/-13	.1	.1	.4	1.3	1.8	1.0	.3	.0	.0	.0	.0	96	.1	4.8
-14/-16	.0	.1	.3	.6	.2	.3	.0	.0	.0	.0	.0	27	.0	1.4
-17/-19	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	8	.0	.4
-20/-22	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	8	25	130	312	526	490	300	130	37	7	1966	111	1855
PCT	.1	.4	1.3	6.6	15.9	26.8	24.9	15.3	6.6	1.9	.4	100.0	5.6	94.4

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.2	.2	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.2
1-2	.1	2.0	.9	.0	.0	.0	3.0	.0	1.5	.4	.0	.0	.0	1.9
3-4	.0	.8	1.3	.3	.0	.0	2.4	.0	.8	.3	.0	.0	.0	2.0
5-6	.0	.2	1.8	.2	.4	.0	2.2	.0	.1	.6	.9	.0	.0	1.5
7	.0	.0	.8	.9	.4	.0	2.2	.0	.0	.2	.4	.2	.0	.4
8-9	.0	.0	.3	.9	.2	.0	1.4	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.1	.2	.1	.1	.5	.0	.0	.3	1.0	.0	.0	1.3
12	.0	.0	.0	.2	.1	.0	.3	.0	.0	.2	.2	.0	.0	.3
13-16	.0	.0	.0	.3	.3	.0	.6	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.3	5.4	3.0	1.4	.1	13.2	.0	2.6	2.3	2.8	.5	.0	8.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	.4	.0	.0	.0	.0	.7	.2	.8	.0	.0	.0	.0	1.0
1-2	.0	.8	.8	.0	.0	.0	1.6	.0	1.3	.7	.0	.0	.0	1.3
3-4	.0	.0	.3	.4	.0	.0	1.3	.0	.6	1.0	.3	.0	.0	1.8
5-6	.0	.3	.7	.5	.0	.0	1.3	.0	.2	.8	.3	.2	.0	1.7
7	.0	.2	.2	.4	.1	.0	.8	.0	.0	.0	.3	.0	.0	.5
8-9	.0	.0	.1	.4	.1	.0	.5	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.0	.0	1.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.7	2.1	1.9	.2	.0	6.3	.2	2.2	2.6	2.0	1.4	.0	8.4

PERIOD: (OVER-ALL) 1963-1970

DECEMBER

TABLE 18 (CONT)

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.2W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.2	.2	.0	.0	.0	.0	.4
1-2	.0	.8	.4	.0	.0	.0	1.2	.2	1.3	.4	.0	.0	.0	1.9
3-4	.0	.3	1.7	.1	.0	.0	2.1	.0	1.0	1.5	.0	.0	.0	2.5
5-6	.0	.0	2.1	.5	.0	.0	2.7	.0	.0	1.5	.5	.0	.0	2.1
7	.0	.0	.6	.3	.2	.0	1.0	.0	.2	1.0	1.0	.3	.0	2.5
8-9	.0	.2	.2	.7	.1	.0	1.1	.0	.0	.3	.7	.2	.0	1.2
10-11	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.4	.5	.0	.9
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.2	.2	.0	.5
13-16	.0	.0	.0	.2	.6	.0	.7	.0	.0	.0	.3	.4	.2	.1
17-19	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.4
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.2	.4
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	4.9	2.3	1.3	.1	11.0	.3	2.7	4.9	3.5	1.9	.3	13.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.7	.5	.0	.0	.0	1.3	.0	1.4	.2	.0	.0	.0	1.7	.0
3-4	.0	.8	2.2	1.4	.0	.0	3.2	.0	.7	.7	.2	.0	.0	1.6	.0
5-6	.0	.3	3.0	1.4	.4	.0	5.0	.0	.5	2.0	1.1	.0	.0	3.5	.0
7	.0	.2	2.4	1.3	.3	.0	4.4	.0	.0	1.8	1.2	.2	.0	3.2	.0
8-9	.0	.0	1.1	1.5	.4	.0	3.1	.0	.0	.2	.5	.0	.0	.7	.0
10-11	.0	.0	.6	1.3	.9	.0	2.8	.0	.0	.1	.2	.1	.0	.4	.0
12	.0	.0	.2	.7	.6	.0	1.5	.0	.0	.0	.1	.2	.0	.2	.0
13-16	.0	.0	.5	.9	1.1	.2	2.6	.0	.0	.0	.2	.2	.0	.3	.0
17-19	.0	.0	.1	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.5	.1	.6	.0	.0	.0	.2	.0	.0	.2	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	10.6	7.3	5.0	.3	25.2	.0	2.7	4.9	3.6	.7	.0	11.9	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.5	3.1	.2	.0	.0	.0	5.7	
1-2	.3	9.2	4.3	.0	.0	.0	13.8	
3-4	.3	5.1	9.5	1.7	.0	.0	16.6	
5-6	.0	1.5	12.5	9.7	.6	.0	20.3	
7	.0	.6	6.9	5.7	1.8	.0	15.1	
8-9	.0	.2	2.2	5.2	.9	.0	8.5	
10-11	.0	.0	1.1	4.7	2.0	.2	6.9	
12	.0	.0	.5	1.5	1.1	.0	3.1	
13-16	.0	.0	.5	2.3	3.7	.3	6.8	
17-19	.0	.0	.2	.2	.6	.0	.9	
20-22	.0	.0	.0	.2	.9	.3	1.4	
23-25	.0	.0	.0	.0	.3	.0	.3	
26-32	.0	.0	.0	.2	.3	.2	.6	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.1	19.7	37.7	26.3	12.3	.9	100.0	650

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	3.4	8.9	6.7	3.8	.5	.7	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	373	4
6-7	.1	.2	3.1	6.6	5.1	3.8	2.0	1.6	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	443	8
8-9	.0	.1	1.1	2.2	3.9	4.8	3.3	2.6	3.0	.8	.1	.2	.1	.0	.0	.0	.0	.0	.0	328	9
10-11	.0	.0	.1	.6	1.0	1.3	.8	1.3	1.0	.3	.1	.1	.2	.1	.0	.0	.0	.0	.0	104	11
12-13	.0	.0	.3	.1	.1	.2	.3	.0	.3	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	28	12
>13	.0	.0	.0	.0	.1	.1	.4	.1	.1	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	16	15
INDET	1.3	2.2	2.8	1.4	1.9	1.3	.5	.4	.9	.2	.1	.1	.2	.0	.0	.0	.0	.0	.0	198	6
TOTAL	33	87	241	263	259	197	146	96	104	28	13	7	15	1	0	0	0	0	0	1490	7
PCT	2.2	5.8	16.2	17.7	17.4	13.2	9.8	6.4	7.0	1.9	.9	.5	1.0	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1930-1971
(OVER-ALL) 1869-1971

ANNUAL

AREA 0005 PLACENTIA BAY SOUTH
45.9N 94.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	3.6	1.2	2.4	.1	4.4	.2	*	11.4	1.9	.0	8.4	.3	.5	.1	77.4
NE	8.2	1.1	4.0	*	5.1	.4	.1	18.2	3.3	.1	13.0	.7	.6	.1	64.0
E	13.5	1.4	6.0	.2	4.9	.2	.3	25.1	2.4	.0	19.2	.6	.7	*	52.0
SE	19.1	2.0	9.0	.4	3.4	.1	.1	22.9	2.8	.2	26.7	.9	1.1	.1	45.4
S	11.7	1.7	4.1	*	2.9	.1	.0	19.7	2.5	.2	28.2	.8	1.5	.0	47.1
SW	9.0	1.2	2.4	.1	4.2	.1	.1	12.8	2.5	.1	22.7	.7	1.3	.1	59.7
W	1.9	.9	.9	.1	6.8	.1	.2	10.4	3.4	.1	11.3	.6	1.0	.1	73.2
NW	1.8	1.0	1.2	.1	5.9	*	.2	9.9	2.7	.1	7.6	.5	.5	*	78.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	.7	1.6	.0	2.3	.0	.0	6.1	1.0	.3	28.6	1.2	1.6	.0	61.3
TOT PCT	5.9	1.2	2.6	.1	5.1	.1	.1	14.5	2.8	.1	17.9	.7	1.0	.1	62.9
TOT OBS:	27616														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	6.6	1.4	2.7	.1	4.9	.1	.1	15.4	2.3	.2	17.4	.6	.9	*	63.3
06009	6.5	1.3	2.9	.1	5.5	.1	.1	15.9	3.0	.2	16.1	.6	.7	.1	63.4
12615	4.9	1.0	2.4	.1	4.9	.2	.1	13.2	2.8	*	19.6	.8	1.4	*	62.1
18021	5.3	1.1	2.3	*	4.8	.2	.1	13.4	3.2	.1	18.8	.7	1.0	.1	62.8
TOT PCT TOT OBS: 27993	5.8	1.2	2.6	.1	5.0	.1	.1	14.5	2.8	.1	18.0	.7	1.0	.1	62.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.3	2.5	4.0	1.6	.4	*	8.8	15.2	8.2	8.8	9.8	9.8	9.9	8.6	7.8	7.2		
NE	.2	2.2	3.1	1.6	.3	*	7.4	15.6	7.9	7.2	7.0	7.9	7.7	7.3	7.1	6.6		
E	.3	2.4	3.7	1.5	.3	*	7.8	15.3	7.8	7.2	7.8	8.0	7.9	7.0	8.1	8.3		
SE	.3	2.8	3.4	1.4	.3	*	8.2	15.3	8.2	8.7	7.6	8.4	8.3	9.3	8.3	8.2		
S	.5	4.5	5.3	1.9	.4	*	12.6	15.1	12.0	12.6	12.5	11.9	12.5	12.6	13.4	13.5		
SW	.6	6.1	8.3	2.5	.5	.1	18.1	15.6	18.3	18.3	17.6	17.5	19.4	17.5	20.1	20.1		
W	.6	5.5	9.0	5.9	1.7	.2	22.4	17.6	23.2	22.7	21.9	21.4	20.9	21.5	24.1	22.7		
NW	.3	3.2	5.4	3.1	.8	.1	12.8	16.4	12.6	13.1	13.0	14.0	13.2	12.9	11.9	12.3		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.8						1.8	.0	1.8	1.4	2.8	1.0	2.1	1.3	1.8	1.2		
TOT OBS							33079	15.9	6738	2744	5267	2138	6212	2275	3321	2384		
TOT PCT	5.0	29.0	41.6	19.1	4.6	.5		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	1.2	3.8	2.9	.8	.1	8.8	15.2	8.4	9.8	9.5	7.7	
NE	1.1	3.2	2.3	.8	.1	7.4	15.6	7.7	7.3	7.6	7.0	
E	1.2	3.4	2.3	.8	.1	7.8	15.3	7.7	7.9	7.7	8.1	
SE	1.3	3.8	2.3	.7	.1	8.2	15.3	8.4	7.8	8.6	8.3	
S	2.1	6.2	3.3	.9	.1	12.6	15.1	12.2	12.3	12.5	13.4	
SW	2.6	9.2	5.0	1.2	.2	18.1	15.6	18.3	17.6	18.0	18.3	
W	2.4	8.9	7.1	3.4	.6	22.4	17.6	23.1	21.8	21.1	23.6	
NW	1.3	5.1	4.5	1.7	.2	12.8	16.4	12.7	13.3	13.1	12.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8					1.8	.0	1.7	2.3	1.9	1.6	
TOT OBS						33079	15.9	9482	7405	8487	7705	
TOT PCT	15.0	43.5	29.5	10.4	1.6	100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.7	3.4	29.1	42.3	19.3	3.8	.5	13.6	100.0	9482
06009	2.3	2.9	29.2	42.2	18.5	4.4	.4	13.6	100.0	7405
12015	1.9	3.6	30.7	40.2	18.9	4.9	.3	13.8	100.0	8487
18021	1.6	2.8	27.8	42.0	19.6	5.5	.7	16.5	100.0	7705
TOT								13.9		33079
PCT	1.8	3.7	29.0	41.6	19.1	4.6	.5	101.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.6	.8	2.2	4.4		5.8
NE	.9	.4	1.4	4.8		6.6
E	.6	.3	1.1	6.0		7.0
SE	.6	.4	1.1	5.9		7.0
S	1.4	.6	2.0	8.4		6.6
SW	3.7	1.3	3.4	9.4		5.9
W	5.7	2.6	6.2	8.6		5.1
NW	2.9	1.4	3.6	4.4		5.1
VAR	.0	.0	.0	.0		.0
CALM	.5	.1	.3	.8		5.4
TOT OBS					21659	5.9
TOT PCT	18.0	8.0	21.2	52.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.5	.6	.2	.8	2.1	1.6	.3	.1	.1	.1	3.1	
NE	.8	.6	.3	.9	1.7	1.2	.3	.6	.1	.1	1.9	
E	1.5	.1	.4	.9	1.9	1.0	.3	.1	.1	.2	1.6	
SE	1.9	.1	.3	.9	1.5	.9	.3	.1	.1	.2	1.7	
S	3.6	.1	.4	1.0	1.8	1.2	.4	.1	.2	.3	3.2	
SW	3.9	.1	.4	1.1	2.5	1.6	.4	.2	.2	.4	6.9	
W	1.7	.1	.4	1.8	4.3	3.1	.7	.2	.2	.4	10.3	
NW	.5	.6	.2	1.0	2.4	2.1	.4	.2	.1	.1	5.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.6	.8	.1	.2	.2	.6	.6	.6	.1	.8	
TOT OBS	14.9	.6	2.7	8.6	18.5	13.0	3.1	1.0	1.0	1.9	34.9	21659
TOT PCT												100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.6	2.6	2.7	2.7	2.8	2.8	2.8	2.8
>5000	2.1	3.5	3.7	3.7	3.8	3.8	3.8	3.8
>3500	3.8	6.4	6.7	6.8	6.9	6.9	7.0	7.0
>2000	10.2	18.2	19.4	19.6	19.8	19.9	19.9	20.0
>1000	18.2	33.2	36.8	37.7	38.0	38.3	38.4	38.5
>600	21.5	39.2	44.5	45.8	46.4	46.7	47.0	47.0
>300	22.1	40.5	46.4	48.1	48.9	49.4	49.7	49.7
>150	22.1	40.7	46.8	48.5	49.4	49.9	50.2	50.3
>0	22.2	41.1	47.7	50.3	52.5	55.4	63.2	65.1

TOTAL NUMBER OF OBS: 21708

PCT FREQ NH <5/8: 34.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.3	5.8	7.0	4.5	3.6	4.7	7.2	7.5	33.1	13.7
									22957

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.2	.2	.2	.4	.3	.2	.1	.0	*	1.8	
	NO PCP	.3	.5	1.0	1.6	3.0	3.5	1.4	.3	.0	.4	11.9	
	TOT %	.4	.6	1.2	1.8	3.4	3.8	1.5	.4	.0	.4	13.7	
1/2<1	PCP	.1	.1	.2	.2	.2	.2	.1	*	.0	*	1.1	
	NO PCP	.1	.2	.2	.3	.4	.5	.3	.1	.0	*	2.1	
	TOT %	.2	.3	.4	.4	.5	.7	.4	.2	.0	*	3.1	
1<2	PCP	.1	.1	.3	.2	.3	.2	.2	.1	.0	*	1.5	
	NO PCP	.1	.1	.2	.2	.3	.4	.2	*	.0	*	1.5	
	TOT %	.2	.3	.4	.4	.5	.6	.4	.1	.0	*	3.0	
2<5	PCP	.2	.4	.6	.6	.6	.4	.5	.2	.0	*	3.5	
	NO PCP	.2	.4	.4	.5	.7	1.0	.9	.3	.0	.1	4.4	
	TOT %	.5	.7	1.0	1.1	1.3	1.4	1.3	.5	.0	.1	7.8	
5<10	PCP	.4	.5	.6	.6	.7	.7	1.2	.7	.0	*	5.5	
	NO PCP	2.3	1.9	1.8	1.8	2.9	4.4	5.9	3.1	.0	.3	24.6	
	TOT %	2.7	2.4	2.5	2.4	3.7	5.2	7.1	3.9	.0	.4	30.1	
10+	PCP	.1	.1	.1	.1	.1	.1	.4	.2	.0	*	1.3	
	NO PCP	4.9	3.1	2.4	2.1	3.1	6.2	11.4	7.0	.0	.8	40.9	
	TOT %	5.0	3.2	2.5	2.2	3.2	6.3	11.8	7.2	.0	.8	42.2	
TOT OBS													27563
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	.1	.1	.1	.1	.1	*	.0	.4	1.1	
	4-10	.1	.3	.4	.7	1.2	1.5	.7	.2	.0		3.2	
	11-21	.1	.2	.5	.8	1.5	1.8	.7	.1	.0		5.7	
	22+	*	.1	.2	.2	.5	.4	.1	*	.0		1.6	
	TOT %	.4	.6	1.2	1.8	3.4	3.8	1.6	.4	.0	.4	13.6	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	*	.2	
	4-10	*	.1	.1	.1	.2	.2	.1	.1	.0		.9	
	11-21	.1	.1	.1	.2	.2	.3	.1	.1	.0		1.2	
	22+	*	.1	.1	.1	.1	.1	.1	*	.0		.8	
	TOT %	.2	.3	.4	.4	.5	.6	.4	.2	.0	*	3.0	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	*	.1	.1	.1	.1	.2	.1	*	.0		.7	
	11-21	.1	.1	.2	.2	.2	.3	.1	.1	.0		1.3	
	22+	.1	.1	.1	.1	.2	.1	.2	.1	.0		1.0	
	TOT %	.2	.3	.4	.4	.5	.6	.4	.2	.0	*	3.0	
2<5	0-3	*	*	*	*	*	*	*	*	.0	.1	.3	
	4-10	.1	.1	.2	.2	.3	.3	.3	.1	.0		1.6	
	11-21	.2	.3	.4	.4	.5	.7	.5	.2	.0		3.2	
	22+	.1	.3	.4	.4	.5	.3	.6	.2	.0		2.8	
	TOT %	.5	.7	1.0	1.0	1.3	1.4	1.4	.5	.0	.1	7.9	
5<10	0-3	.1	*	.1	.1	.1	.1	.1	.1	.0	.3	1.0	
	4-10	.5	.5	.6	.6	1.1	1.4	1.3	.7	.0		6.8	
	11-21	1.2	.9	.9	1.0	1.6	2.4	2.4	1.5	.0		12.0	
	22+	.8	.8	.7	.6	.7	1.1	3.0	1.4	.0		9.2	
	TOT %	2.6	2.3	2.3	2.3	3.5	5.0	6.8	3.8	.0	.3	28.9	
10+	0-3	.2	.1	.1	.1	.2	.2	.2	.2	.0	.8	2.0	
	4-10	1.6	1.2	1.0	1.0	1.5	2.4	2.9	2.0	.0		13.4	
	11-21	2.4	1.4	1.1	.9	1.4	3.0	5.3	3.4	.0		19.0	
	22+	1.0	.5	.4	.3	.3	1.0	3.6	2.1	.0		9.1	
	TOT %	5.1	3.2	2.6	2.3	3.3	6.6	12.0	7.6	.0	.8	43.5	
TOT OBS													30425
TOT PCT													100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	190 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL 63.1	NM <5/8 ANY HGT	TOTAL OBS
00003	15.2	.5	2.4	7.3	18.2	12.3	2.9	1.2	1.1	1.8	63.1	36.9	9987
06009	15.2	.6	2.9	8.4	17.4	13.9	2.9	.9	.7	1.8	64.3	34.7	4970
12015	14.5	.7	2.7	9.6	19.3	13.1	3.4	.9	1.1	1.6	67.0	33.0	5357
18021	14.1	.5	2.8	8.6	18.3	12.4	3.3	1.0	1.0	2.0	64.0	36.0	5807
TOT													22121
PCT	14.7	.6	2.7	8.4	18.3	12.8	3.1	1.0	1.0	1.8	64.5	35.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	13.7	2.8	7.6	7.6	32.0	41.3	8748
06009	14.1	3.0	2.6	7.3	28.8	45.3	7002
12015	14.1	3.3	7.9	8.0	27.1	43.5	7707
18021	13.6	3.0	7.0	8.9	27.0	44.6	7363
TOT							30820
PCT	13.6	3.0	7.9	7.9	28.9	43.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGFS OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	15.3	19.8	32.2	39.0	34.8	5856
06009	15.4	20.4	33.2	39.0	33.7	4872
12015	14.8	20.1	35.7	34.0	30.2	5269
18021	14.3	19.4	34.0	32.8	33.1	5711
TOT						21708
PCT	14.9	19.9	33.8	33.2	33.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	.0	.0	.0	*	*
75/79	.0	.0	.0	.0	.0	.0	.0	.0	*	*
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
65/69	.0	.0	.0	.0	.2	.7	.3	.6	1.0	1.0
60/64	.0	.0	.0	.2	.6	1.8	3.2	9.8	11.9	9.8
55/59	.0	.0	.0	.4	1.4	3.8	6.3	11.9	11.8	11.8
50/54	.0	.0	.1	.7	1.1	3.6	6.2	11.8	11.9	11.9
45/49	.0	.0	.2	.6	2.0	3.0	6.0	13.8	18.9	18.9
40/44	.0	.0	.2	.9	1.8	3.8	7.0	16.2	2.2	2.2
35/39	.0	.0	.2	1.0	2.2	5.1	10.2	18.9	.8	.8
30/34	.0	.0	.1	.2	.9	2.7	5.2	7.1	.1	.1
25/29	.0	.0	.1	.9	1.1	1.3	2.3	5.4	.0	.0
20/24	.0	.0	.1	.1	.5	.7	.7	2.2	.0	.0
15/19	.0	.0	.0	.0	.1	.3	.2	.8	.0	.0
10/14	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0
5/9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL								19000		100.0
PCT	.0	.1	.2	1.2	5.5	19.7	29.1	50.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
.0	.0	.1	.1	.2	.4	.2	.0	.0	.0
.2	.1	.2	.5	1.3	1.9	1.2	.3	.0	.1
.3	.6	.7	1.0	2.1	3.1	2.7	.9	.0	.2
.7	.7	.8	1.1	2.1	2.7	2.4	1.1	.0	.2
1.0	.7	.9	1.2	1.9	2.5	2.3	1.1	.0	.3
1.3	1.1	1.3	1.3	2.1	2.4	2.5	1.5	.0	.2
2.0	2.0	2.0	1.8	2.0	2.7	4.1	2.0	.0	.3
2.0	1.7	1.6	1.2	.9	1.9	4.3	2.5	.0	.1
.7	.4	.2	.2	.2	.4	1.9	1.4	.0	.0
.3	.1	.1	.0	.0	.1	.8	.8	.0	.0
.1	.0	.0	.0	.0	.0	.3	.3	.0	.0
.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.8	7.4	8.1	8.4	12.9	18.0	22.9	12.0	.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	53	50	43	35	31	8	43.7	9466
06009	69	53	50	43	34	31	4	43.2	7412
12015	76	55	51	43	35	31	9	44.5	8448
18021	81	56	52	44	36	32	9	44.9	7691
TOT	81	55	51	43	35	31	4	44.1	33017

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.3	5.2	13.1	28.2	52.3	88	5490
06009	.1	1.3	4.2	12.1	28.5	52.8	88	4462
12015	.0	1.4	5.3	14.8	29.0	49.5	88	4691
18021	.0	1.9	7.5	13.0	30.9	44.7	86	4604
TOT	.3	2.82	10.97	28.69	56.11	93.85	88	19247

PERIOD: (PRIMARY) 1930-1971
(OVER-ALL) 1869-1971

ANNUAL

AREA 0005 PLACENTIA RAY SOUTH
45.9N 54.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.0
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	.0	.0
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	172	.3	.5
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.5	.3	.2	.2	.2	.1	.1	.1	.1	.1	400	.5	1.1
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.7	.6	.5	.4	.5	.3	.2	.1	.1	.1	.1	953	1.2	2.7
6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.5	.5	.4	.4	.4	.2	.1	.1	.1	.1	.1	844	1.1	2.4
5	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.1	.7	.7	.7	.6	.6	.3	.1	.1	.1	.1	.1	1297	1.7	3.6
4	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.3	.9	.7	.8	.8	.9	.5	.1	.1	.1	.1	.1	1701	1.9	5.1
3	.0	.0	.0	.0	.0	.0	.0	.2	1.5	1.6	1.0	.9	.9	1.0	1.0	.6	.1	.1	.1	.1	.1	2127	2.2	6.6
2	.0	.0	.0	.0	.0	.0	.0	.6	2.2	1.4	.9	1.1	1.0	1.0	1.2	.6	.1	.1	.1	.1	.1	2413	2.3	7.7
1	.0	.0	.0	.0	.0	.0	.0	1.3	2.4	1.5	1.0	.8	1.0	1.2	1.2	.5	.1	.1	.1	.1	.1	2492	2.3	8.0
0	.0	.0	.0	.0	.0	.0	.0	1.3	2.3	1.3	1.0	.7	.9	1.1	1.0	.4	.1	.1	.1	.1	.1	2507	1.7	8.6
-1	.0	.0	.0	.0	.0	.0	.1	1.1	1.5	.8	.8	.7	.7	.9	.5	.2	.1	.1	.1	.1	.1	1799	1.0	6.3
-2	.0	.0	.0	.0	.0	.0	.3	1.3	1.1	.8	.7	.6	.6	.6	.5	.1	.1	.1	.1	.1	.1	1603	.6	5.9
-3	.0	.0	.0	.0	.0	.0	.3	1.1	.8	.5	.5	.4	.4	.4	.2	.1	.1	.1	.1	.1	.1	1142	.4	4.3
-4	.0	.0	.0	.0	.0	.0	.7	.7	.6	.5	.4	.3	.3	.3	.2	.1	.1	.1	.1	.1	.1	984	.3	3.8
-5	.0	.0	.0	.0	.0	.1	.6	.7	.5	.4	.3	.3	.2	.2	.1	.1	.1	.1	.1	.1	.1	837	.1	3.3
-6	.0	.0	.0	.0	.0	.1	.5	.5	.5	.3	.2	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	608	.1	2.4
-7/-8	.0	.0	.0	.0	.0	.5	.9	.7	.6	.4	.3	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	925	.1	3.8
-9/-10	.0	.0	.0	.0	.1	.9	.4	.3	.2	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	567	.1	2.3
-11/-13	.0	.0	.0	.0	.3	.5	.3	.3	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	429	.0	1.9
-14/-16	.0	.0	.0	.2	.3	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	183	.0	.8
-17/-19	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	64	.0	.3
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	.0	.1
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	.0	.1
-26/-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.0
TOTAL																						24152		
PCT	*	*	.1	.3	.8	2.0	4.3	9.8	16.2	13.5	10.5	9.8	9.0	9.5	8.7	4.1	1.0	.2	*	*	*	100.0	18.2	81.8

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.4	.0	.0	.0	.0	.5	.1	.3	.0	.0	.0	.0	.4
1-2	.1	1.0	.5	.0	.0	.0	1.5	.1	1.0	.3	.0	.0	.0	1.3
3-4	.0	.5	1.4	.2	.0	.0	2.1	.0	.5	1.3	.2	.0	.0	2.0
5-6	.0	.1	1.2	.3	.0	.0	1.7	.0	.1	.9	.4	.0	.0	1.4
7	.0	.0	.7	.4	.1	.0	1.2	.0	.0	.5	.4	.1	.0	1.0
8-9	.0	.0	.2	.3	.1	.0	.5	.0	.0	.1	.2	.1	.0	.5
10-11	.0	.0	.1	.2	.1	.0	.3	.0	.0	.1	.3	.1	.0	.5
12	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.2	.1	.0	.3
13-16	.0	.0	.0	.1	.1	.0	.3	.0	.0	.0	.1	.1	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.0	4.0	1.7	.4	.1	8.4	.1	2.0	3.3	1.9	.5	.1	7.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.5	.1	.0	.0	.0	.6	.1	.4	.0	.0	.0	.0	.6
1-2	.1	.8	.4	.0	.0	.0	1.3	.1	1.2	.5	.0	.0	.0	1.8
3-4	.0	.7	1.4	.2	.0	.0	2.2	.0	.7	1.2	.2	.0	.0	2.0
5-6	.0	.1	.7	.4	.1	.0	1.3	.0	.1	.9	.3	.0	.0	1.3
7	.0	.1	.5	.4	.1	.0	1.0	.0	.0	.4	.3	.0	.0	.8
8-9	.0	.0	.1	.4	.1	.0	.5	.0	.0	.1	.2	.0	.0	.4
10-11	.0	.0	.1	.2	.1	.0	.4	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.1	.0	.0	.2
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.1	.2	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.1	3.2	1.8	.6	.0	7.8	.3	2.4	3.2	1.4	.4	.0	7.7

PERIOD: (OVER-ALL) 1963-1971

ANNUAL

TABLE 18 (CONT)

AREA 0005 PLACENTIA BAY SOUTH
43.9N 54.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.8	.0	.0	.0	.8	.1	.8	.1	.0	.0	.0	1.1
1-2	.1	2.0	.8	.0	.0	.0	2.9	.1	2.4	1.2	.0	.0	.0	3.7
3-4	.0	1.2	2.2	.3	.0	.0	3.7	.0	1.9	3.6	.2	.0	.0	5.7
5-6	.0	.3	1.6	.4	.0	.0	2.4	.0	.4	2.5	.6	.0	.0	3.5
7	.0	.0	.8	.4	.1	.0	1.4	.0	.1	1.6	.6	.1	.0	2.5
8-9	.0	.0	.1	.3	.0	.0	.5	.0	.0	.4	.4	.1	.0	1.0
10-11	.0	.0	.0	.3	.1	.0	.4	.0	.0	.3	.4	.1	.0	.8
12	.0	.0	.0	.1	.0	.0	.2	.0	.0	.2	.2	.0	.0	.3
13-16	.0	.0	.0	.1	.1	.0	.3	.0	.0	.0	.2	.1	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.1	5.7	2.0	.4	.0	12.6	.3	5.6	9.7	2.8	.9	.2	10.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.7	.1	.0	.0	.0	.9	.1	.4	.0	.0	.0	.0	.4	
1-2	.1	1.9	1.2	.0	.0	.0	3.3	.0	1.0	.5	.0	.0	.0	1.5	
3-4	.0	1.7	3.2	.5	.0	.0	5.4	.0	.6	1.4	.3	.0	.0	2.4	
5-6	.0	.4	2.8	.8	.0	.0	4.1	.0	.2	1.6	.6	.0	.0	2.5	
7	.0	.0	1.1	.2	.0	.0	2.9	.0	.0	.9	.7	.1	.0	1.7	
8-9	.0	.0	.6	.8	.3	.0	1.8	.0	.0	.4	.6	.1	.0	1.0	
10-11	.0	.0	.9	.9	.2	.0	1.4	.0	.0	.1	.3	.1	.0	.5	
12	.0	.0	.1	.4	.2	.0	.8	.0	.0	.1	.2	.1	.0	.4	
13-16	.0	.0	.0	.5	.4	.0	1.0	.0	.0	.0	.2	.2	.0	.5	
17-19	.0	.0	.0	.1	.3	.0	.4	.0	.0	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	4.8	10.0	5.3	1.9	.2	22.5	.2	2.3	5.0	3.0	.7	.1	11.2	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.8	4.1	.3	.0	.0	.0	8.2	
1-2	.9	11.3	5.3	.0	.0	.0	17.5	
3-4	.2	7.6	15.6	7.0	.0	.0	25.3	
5-6	.0	1.8	12.2	3.8	.3	.0	18.1	
7	.0	.3	7.0	4.4	.8	.0	12.4	
8-9	.0	.1	2.1	3.2	.7	.1	6.1	
10-11	.0	.0	1.0	2.4	.6	.1	4.4	
12	.0	.0	.3	1.6	.6	.0	2.5	
13-16	.0	.0	.1	1.6	1.3	.1	3.2	
17-19	.0	.0	.1	.7	.4	.1	.8	
20-22	.0	.0	.0	.1	.4	.2	.7	
23-25	.0	.0	.0	.0	.2	.4	.2	
26-32	.0	.0	.0	.0	.1	.2	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.9	25.4	43.9	19.7	5.4	.7	100.0	7758

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	7.5	13.9	7.5	3.3	.9	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6365	4
6-7	.1	.8	5.5	7.5	6.9	3.5	2.3	1.1	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	5310	6
8-9	.0	.2	1.3	1.8	2.9	2.4	2.0	1.5	1.5	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	2605	9
10-11	.0	.2	.3	.5	.7	.6	.5	.6	.8	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	863	10
12-13	.0	.0	.2	.1	.2	.1	.2	.2	.2	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	269	11
>13	.0	.0	.0	.1	.1	.1	.1	.1	.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	191	14
INDET	2.6	2.9	3.5	2.1	1.6	.7	.4	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2668	4
TOTAL PCT	3.8	11.6	24.7	19.7	15.7	8.3	6.0	3.8	4.0	1.1	.8	.2	.3	.0	.0	.0	.0	.0	.0	18231	6

PER(DD) (PRIMARY) 1930-1971
(OVER-ALL) 1869-1971

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	6	.0
69/70	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	10	.0
67/68	.0	.0	.0	.0	.0	.0	.0	1.1	.1	.0	.0	.0	34	.1
65/66	.0	.0	.0	.0	.0	.0	.5	2.5	.7	.1	.0	.0	103	.4
63/64	.0	.0	.0	.0	.0	.0	.8	6.4	4.9	.2	.0	.0	347	1.2
61/62	.0	.0	.0	.0	.0	.0	1.3	12.1	10.5	.7	.1	.0	704	2.4
59/60	.0	.0	.0	.0	.0	.0	4.1	19.3	12.5	1.3	.1	.0	1041	3.5
57/58	.0	.0	.0	.0	.0	.0	9.6	20.0	18.4	4.2	.1	.0	1459	5.0
55/56	.0	.0	.0	.0	.0	.6	11.2	18.4	20.3	7.3	.6	.0	1632	5.4
53/54	.2	.0	.0	.1	.1	.8	17.0	11.0	19.0	12.0	1.5	.0	1584	5.4
51/52	.0	.0	.1	.1	.0	2.6	14.4	5.0	9.5	17.6	3.7	.5	1528	5.2
49/50	.0	.2	.1	.2	.1	5.2	15.6	2.4	4.9	20.6	9.8	.7	1648	5.6
47/48	.1	.2	.1	.1	.4	8.0	11.9	.7	1.6	16.1	13.7	1.8	1501	5.1
45/46	.7	.4	.6	.7	1.4	15.7	6.5	.4	.7	12.9	20.7	5.4	1797	6.1
43/44	1.6	.3	.3	.6	3.2	18.7	3.3	.1	.3	4.1	17.8	9.0	1577	5.4
41/42	2.7	1.4	.9	1.5	8.1	20.3	1.5	.1	.2	1.9	15.7	14.3	1777	6.1
39/40	6.4	2.4	1.9	2.9	15.3	16.1	.1	.0	.1	.8	9.9	20.0	1904	6.5
37/38	11.0	5.1	4.5	8.1	25.4	8.5	.1	.0	.1	.0	4.6	21.1	2127	7.3
35/36	23.2	15.3	10.2	18.0	25.8	2.7	.0	.0	.0	.1	1.0	16.0	2466	8.4
33/34	27.1	27.0	22.2	29.9	14.9	.3	.0	.0	.0	.0	.5	7.2	2631	9.0
31/32	18.4	28.6	33.9	26.1	4.3	.2	.0	.0	.0	.0	.1	2.2	2151	7.3
29/30	7.3	17.6	21.2	10.5	.8	.0	.0	.0	.0	.0	.0	1.2	1080	3.7
27/28	1.2	3.5	4.0	1.3	.2	.0	.0	.0	.0	.0	.0	.4	198	.7
25/26	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
23/24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19/20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17/18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13/14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11/12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5/6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3/4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	2413	1877	1610	1719	2622	2364	2917	2615	3175	2948	3099	2547	29306	100.0
MEAN	34.6	32.9	32.5	33.7	37.0	43.0	51.9	57.7	56.2	50.1	44.5	38.9	42.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

HR	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1010	1011	1009	1010	1010	1008	1008	1010	1009	2437
FEB	1011	1009	1010	1009	1009	1008	1009	1009	1010	2045
MAR	1009	1009	1010	1009	1011	1009	1010	1008	1010	1893
APR	1013	1013	1013	1013	1017	1014	1013	1013	1013	1931
MAY	1015	1014	1014	1014	1014	1015	1014	1015	1015	2529
JUN	1014	1014	1014	1013	1015	1015	1015	1014	1014	2278
JUL	1016	1016	1016	1016	1016	1016	1016	1016	1016	2153
AUG	1016	1015	1015	1015	1015	1016	1015	1015	1015	2409
SEP	1017	1016	1017	1017	1017	1018	1016	1016	1017	2074
OCT	1015	1015	1015	1015	1015	1014	1014	1015	1015	2588
NOV	1016	1016	1016	1016	1015	1016	1015	1016	1016	2744
DEC	1013	1011	1012	1011	1017	1014	1011	1012	1012	2977
ANN	1014	1013	1013	1013	1014	1014	1013	1013	1014	28260
MRS	5937	1945	5241	1336	5391	1520	5264	1626		

PERCENTILES

HR	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	956	970	985	1001	1010	1019	1030	1036	1043
FEB	960	976	989	1002	1010	1019	1029	1035	1042
MAR	963	977	986	1001	1011	1019	1027	1034	1047
APR	966	983	994	1005	1014	1021	1030	1037	1041
MAY	977	991	999	1009	1019	1020	1028	1032	1037
JUN	985	995	1002	1010	1019	1020	1025	1030	1036
JUL	994	1001	1005	1012	1016	1020	1025	1029	1033
AUG	993	999	1005	1011	1016	1020	1025	1028	1033
SEP	986	999	1004	1012	1017	1022	1027	1031	1036
OCT	976	989	997	1009	1014	1021	1029	1032	1039
NOV	971	982	996	1009	1017	1024	1032	1037	1043
DEC	966	983	991	1004	1019	1020	1030	1036	1039

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1892-1971

JANUARY

AREA 0006 CABOT STRAIT
46.6N 96.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.6	1.3	1.3	.0	24.8	.0	.0	26.7	1.6	.0	2.3	.0	.0	.0	69.5
NE	4.5	.0	4.9	.0	18.4	.0	.0	27.7	10.5	.0	3.0	.0	.0	.0	58.8
E	13.3	.0	2.7	.0	24.8	1.8	1.8	28.2	1.8	.0	6.8	.0	3.2	.0	50.0
SE	14.4	1.9	1.9	.0	34.0	.0	.0	43.5	4.3	.0	8.1	.0	.5	.0	43.5
S	18.7	.0	11.1	.0	16.9	.0	1.2	40.7	3.0	.0	8.7	.0	.0	.0	47.6
SW	9.4	.3	2.0	1.0	18.7	1.0	1.0	40.9	3.8	.0	2.8	.0	1.0	1.0	60.5
W	1.1	3.2	.0	.0	27.2	.0	.0	28.8	6.2	.0	.5	.0	1.2	.0	63.3
NW	.9	.6	.0	.0	26.4	.0	.0	27.4	7.3	.0	.8	.0	.3	.0	64.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	16.7	.0	16.7	.0	16.7	.0	.0	93.3	.0	.0	.0	.0	16.7	.0	50.0
TOT PCT	5.9	1.2	2.3	.1	24.2	.2	.4	31.3	5.3	.0	2.9	.0	.9	.1	59.5
TOT OBS:	818														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	8.5	1.9	3.8	.0	27.0	.0	.0	35.1	3.8	.0	3.8	.0	1.4	.0	55.9
06009	6.9	.0	1.3	.6	31.3	.0	.6	32.1	6.9	.0	1.9	.0	.0	.0	53.1
12015	4.0	1.8	.9	.0	19.3	.4	.0	24.2	5.8	.0	1.8	.0	1.3	.4	66.4
18021	4.4	.9	3.1	.0	21.6	.4	.9	30.0	4.8	.0	4.0	.0	.4	.0	60.8
TOT PCT TOT OBS:	5.8 821	1.2	2.3	.1	24.2	.2	.4	31.3	5.2	.0	2.9	.0	.9	.1	59.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.3	2.1	3.6	2.4	.8	.2		9.5	19.5	11.5	6.8	9.0	5.0	7.8	10.3	11.1	8.9
NE	.1	1.6	4.0	1.8	.4	.0		8.0	17.5	10.2	4.7	9.4	6.4	8.7	4.8	7.2	6.3
E	.0	1.5	2.8	1.7	.7	.1		6.9	19.9	6.3	10.6	7.8	5.0	7.2	5.6	7.4	2.7
SE	.2	1.4	2.0	2.5	.4	.0		6.5	19.4	5.4	5.9	3.2	7.1	7.1	5.6	8.2	7.1
S	.3	2.6	3.4	1.8	1.7	.0		9.8	19.0	10.2	10.2	10.5	13.6	9.5	8.7	8.9	9.8
SW	.1	3.0	4.1	5.4	1.0	.1		11.9	19.2	11.1	17.8	11.5	17.9	12.3	13.5	8.5	13.4
W	.5	4.0	9.5	7.2	4.0	.7		25.9	21.9	23.5	26.7	27.1	21.4	24.7	30.2	26.8	28.1
NW	.1	3.0	8.0	7.0	2.5	.3		20.9	22.0	21.3	15.7	19.7	20.7	21.5	21.4	21.4	23.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0	.5	1.7	.0	2.9	1.2	.0	.6	.0
TOT OBS	21	167	323	241	100	12	864		20.3	167	59	131	35	173	63	180	56
TOT PCT	2.4	19.3	37.4	27.9	11.6	1.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00	06	12	18
									03 <td>09<td>15<td>21</td></td></td>	09 <td>15<td>21</td></td>	15 <td>21</td>	21
N	.7	3.3	4.1	.9	.4		9.5	19.5	10.3	8.1	8.5	10.6
NE	.8	3.1	3.2	.9	.0		8.0	17.5	8.7	8.7	7.6	7.0
E	.6	2.5	1.9	1.7	.1		6.9	19.9	7.4	7.2	6.8	6.3
SE	.6	2.5	1.8	1.5	.1		6.5	19.4	5.5	5.6	6.7	7.9
S	1.1	4.3	1.6	2.6	.1		9.8	19.0	10.2	11.1	9.3	9.1
SW	.9	4.7	3.8	2.1	.3		11.9	19.2	12.8	12.8	12.6	9.6
W	1.9	8.0	8.6	5.8	1.7		25.9	21.9	24.3	25.9	26.2	27.1
NW	1.2	5.3	8.7	4.3	1.2		20.9	22.0	19.8	19.9	21.5	21.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.7						.7	.0	.9	.6	.8	.4
TOT OBS	73	292	292	172	35	864		20.3	226	166	236	236
TOT PCT	8.4	33.8	33.8	19.9	4.1		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1892-1971AREA 0006 CABOT STRAIT
46.6N 58.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.9	.4	19.0	30.1	36.7	11.9	.9	21.2	100.0	226
06009	.6	1.8	22.3	36.7	27.1	10.2	1.2	19.5	100.0	166
12015	.8	3.4	16.9	42.4	26.3	8.9	1.3	19.6	100.0	236
18021	.4	1.3	19.9	39.8	21.6	14.8	2.1	20.7	100.0	236
TOT	6	15	167	323	241	100	12	20.3		864
PCT	.7	1.7	19.3	37.4	27.9	11.6	1.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	.4	2.4	5.4		6.7
NE	.5	.8	1.3	5.7		6.9
E	.3	.0	.4	5.3		7.5
SE	.2	.6	.5	5.9		7.6
S	.4	.5	1.5	8.7		7.2
SW	.6	.7	3.2	7.9		6.9
W	1.8	1.5	7.5	14.4		6.7
NW	2.0	1.3	6.4	9.8		6.4
VAR	.0	.0	.0	.0		.0
CALM	.2	.0	.3	.3		6.0
TOT OBS	47	33	153	407	635	6.8
TOT PCT	7.4	5.2	24.1	63.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

BY WIND DIRECTION					AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION													
WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLDUD COVER	000 149	150 299	300 499	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.5	.4	2.4	5.4		6.2	1.0	.3	.6	.7	1.8	1.2	.3	.2	.4	.3	3.1	
NE	.5	.8	1.3	5.7		6.9	.6	.0	.2	.6	3.4	1.4	.1	.0	.2	.0	1.7	
E	.3	.0	.4	5.3		7.5	1.3	.0	.2	.6	1.4	.6	.2	.4	.3	.1	.9	
SE	.2	.0	.5	5.9		7.6	1.6	.0	.5	1.1	1.2	.8	.3	.2	.1	.2	.7	
S	.4	.5	1.5	8.7		7.2	1.2	.0	.1	1.1	2.4	1.1	1.2	.7	.1	.4	2.8	
SW	.6	.7	3.2	7.9		6.9	.9	.0	.7	1.3	3.5	2.5	.3	.0	.3	.0	2.7	
W	1.8	1.5	7.5	14.4		6.7	1.8	.0	1.2	1.2	6.8	6.2	1.4	.6	.7	.0	5.4	
NW	2.0	1.3	6.9	9.8		6.4	2.3	.0	.6	1.7	4.4	3.5	1.1	.3	.3	.0	5.7	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.3	.3		6.0	.2	.0	.0	.0	.3	.2	.0	.0	.0	.0	.2	
TOT OBS	47	33	153	402	635	6.8	69	25	59	161	111	31	16	15	5	147	635	
TOT PCT	7.4	5.2	24.1	63.3	100.0		10.9	.4	3.9	8.9	25.4	17.5	4.9	2.5	2.4	.8	23.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >3	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >C
= OR >6500	2.0	2.8	2.8	3.0	3.0	3.0	3.1	3.1
= OR >5000	3.1	5.2	5.2	5.3	5.5	5.5	5.7	5.7
= OR >3500	4.7	8.8	10.1	10.4	10.4	10.4	10.5	10.5
= OR >2000	13.2	24.7	27.2	28.0	28.0	28.0	28.1	28.1
= OR >1000	21.9	45.0	50.6	52.4	53.0	53.3	53.5	53.5
= OR >600	24.1	50.2	57.4	59.7	60.7	61.3	61.6	61.6
= OR >300	25.2	51.9	59.7	62.7	64.2	64.9	65.4	65.6
= OR >150	25.2	52.0	59.9	62.9	64.5	65.3	65.7	65.9
= OR >0	25.2	53.0	63.8	68.6	71.7	74.2	75.8	76.7
TOTAL	160	337	406	436	456	472	482	488

TOTAL NUMBER OF OBS: 636

PCT FREQ NH <5/8: 23.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	4.1	3.3	3.9	5.5	4.3	4.4	11.4	9.4	41.9	9.7
										657

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1992-1971

JANUARY

AREA 0000 CAROT STRAIT
46.0N 56.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	.2	.3	.4	.5	.6	.7	.5	.0	.1	3.0	
	NO PCP	.1	.0	.2	.4	.6	.7	.1	.0	.0	.0	1.6	
	TOT %	.3	.2	.6	.8	1.1	.7	.8	.5	.0	.1	4.6	
1/2<1	PCP	.3	.2	.2	.0	.2	.1	.5	.5	.0	.1	2.2	
	NO PCP	.0	.2	.1	.2	.1	.1	.0	.0	.0	.0	.6	
	TOT %	.3	.4	.3	.2	.3	.2	.5	.5	.0	.1	2.8	
1<2	PCP	.5	.4	.5	.5	.2	.9	.9	.8	.0	.0	4.2	
	NO PCP	.1	.1	.0	.0	.1	.1	.1	.3	.0	.0	.8	
	TOT %	.6	.5	.5	.5	.4	.4	1.1	1.1	.0	.0	5.1	
2<5	PCP	.9	.4	1.0	.8	1.7	1.1	2.0	1.6	.0	.0	9.4	
	NO PCP	.0	.4	.2	.2	.2	.2	.8	.4	.0	.0	2.4	
	TOT %	.9	.8	1.2	.9	1.9	1.9	2.8	2.0	.0	.0	11.9	
5<10	PCP	.4	1.0	.7	.9	1.2	1.7	2.6	2.1	.0	.0	10.7	
	NO PCP	2.8	2.2	1.5	1.3	1.4	3.7	6.5	4.7	.0	.2	24.5	
	TOT %	3.1	3.2	2.2	2.2	2.6	5.4	9.1	6.8	.0	.2	35.1	
10+	PCP	.7	.0	.0	.1	.1	.9	1.0	.5	.0	.0	2.4	
	NO PCP	3.9	2.9	2.1	1.5	3.6	4.0	10.8	9.1	.0	.2	38.1	
	TOT %	4.2	2.9	2.1	1.7	3.7	4.4	11.8	9.6	.0	.2	40.6	
TOT OBS													826
TOT PCT		9.4	8.1	6.8	6.3	10.0	12.0	26.1	20.5	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.2	
	4-10	.0	.0	.0	.2	.4	.6	.1	.1	.0	.0	.9	
	11-21	.1	.6	.3	.1	.2	.1	.1	.0	.0	.0	1.1	
	22+	.2	.2	.2	.4	.4	.6	.5	.4	.0	.0	2.2	
	TOT %	.3	.2	.6	.8	1.1	.2	.8	.5	.0	.1	4.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.0	.1	.0	.0	.0	.0	.1	.0	.0	.4	
	11-21	.0	.1	.2	.6	.0	.0	.1	.0	.0	.0	.5	
	22+	.2	.3	.0	.1	.3	.2	.4	.3	.0	.0	1.8	
	TOT %	.3	.4	.3	.1	.3	.2	.5	.4	.0	.1	2.7	
1<2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.0	.1	.1	.1	.2	.1	.0	.0	.8	
	11-21	.2	.3	.2	.2	.2	.1	.1	.5	.0	.0	1.8	
	22+	.4	.0	.2	.4	.1	.2	.9	.5	.0	.0	2.6	
	TOT %	.6	.5	.4	.6	.4	.4	1.3	1.1	.0	.0	5.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.6	.5	.4	.6	.1	.0	.0	1.9	
	11-21	.3	.5	.4	.4	.1	.4	.9	.6	.0	.0	3.5	
	22+	.5	.1	.6	.5	1.3	.5	1.4	1.3	.0	.0	6.2	
	TOT %	.9	.8	1.2	.9	1.9	1.3	2.8	2.0	.0	.0	11.6	
5<10	0-3	.1	.0	.0	.1	.2	.1	.0	.0	.0	.2	.8	
	4-10	.6	1.0	.9	.2	.4	1.3	.8	.6	.0	.0	5.9	
	11-21	.8	1.0	.5	.6	1.5	1.8	3.0	3.0	.0	.0	12.2	
	22+	1.5	1.3	.8	1.1	.5	2.2	5.1	3.1	.0	.0	15.6	
	TOT %	3.1	3.2	2.2	2.2	2.6	5.4	9.0	6.8	.0	.2	34.5	
10+	0-3	.2	.6	.0	.6	.1	.0	.4	.1	.0	.2	1.2	
	4-10	1.5	.4	.4	.8	1.2	1.1	2.3	1.9	.0	.0	9.5	
	11-21	2.1	2.0	1.2	.6	1.4	1.7	5.4	3.9	.0	.0	18.3	
	22+	.6	.4	.5	.3	1.1	1.6	3.6	4.3	.0	.0	12.3	
	TOT %	4.4	2.8	2.0	1.7	3.8	4.3	11.8	10.2	.0	.2	41.4	
TOT OBS													851
TOT PCT		9.5	8.0	6.6	6.4	10.0	11.7	26.1	21.0	.0	.7	100.0	

JANUARY

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1892-1971AREA 0006 CABOT STRAIT
46.8N 58.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	12.7	.0	4.2	9.7	23.0	19.4	6.1	.0	1.8	.0	77.0	23.0	165
06009	14.6	.0	3.1	9.2	27.7	18.5	6.2	.0	3.1	.8	83.1	16.9	130
12015	8.1	.0	6.1	8.1	30.4	15.5	3.4	2.0	2.0	.7	74.3	25.7	148
18021	10.1	1.0	2.5	6.5	21.6	16.6	4.0	6.5	2.5	1.5	72.9	27.1	199
TOT	69	2	25	53	162	112	31	16	15	5	490	132	642
PCT	10.7	.3	3.9	8.3	25.2	17.4	4.8	2.5	2.3	.8	76.3	23.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	5.0	1.8	2.7	17.1	41.4	32.0	222
06009	5.5	3.7	7.3	9.8	30.5	43.3	164
12015	3.0	3.4	9.1	9.8	29.5	49.1	234
18021	5.1	2.1	6.4	10.2	35.7	40.4	235
TOT	39	23	45	101	295	352	855
PCT	4.6	2.7	9.3	11.8	34.5	41.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	13.6	19.1	37.7	40.7	21.6	162
06009	14.8	20.3	37.5	44.1	16.4	128
12015	6.1	14.2	27.0	48.6	24.3	148
18021	10.1	15.7	28.8	44.9	26.3	198
TOT	70	109	206	286	144	636
PCT	11.0	17.1	32.4	45.0	22.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	.0	.4	.0	2	.4
45/49	.0	.0	.0	.0	.0	.2	.0	.6	4	.8
40/44	.0	.0	.0	.0	.2	.8	1.1	4.4	34	6.4
35/39	.0	.0	.2	.0	2.3	4.0	4.9	9.7	111	21.0
30/34	.0	.0	.2	.2	2.1	3.6	8.9	11.7	141	26.7
25/29	.2	.0	.2	.4	2.7	5.3	9.3	8.9	142	26.9
20/24	.0	.0	.0	.2	1.3	2.8	3.8	3.4	61	11.6
15/19	.0	.2	.2	1.1	.4	1.3	1.5	.8	29	5.5
10/14	.0	.0	.0	.0	.4	.0	.4	.0	4	.8
TOTAL	1	1	4	10	49	95	160	208	528	100.0
PCT	.2	.2	.8	1.9	9.3	18.0	30.3	39.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0
45/49	.0	.0	.2	.1	.3	.0	.0	.0	.0	.0
40/44	.3	.6	.0	.6	2.6	1.2	.9	.2	.0	.0
35/39	1.6	3.2	2.5	1.4	2.7	3.4	3.6	2.2	.0	.4
30/34	2.6	1.5	2.3	3.4	2.9	2.3	6.2	5.2	.0	.4
25/29	3.0	.7	1.2	.2	2.1	3.7	9.4	6.3	.0	.2
20/24	1.5	.9	.3	.0	.6	.5	4.4	3.4	.0	.0
15/19	.1	.6	.1	.0	.0	.2	1.9	2.5	.0	.0
10/14	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0
TOTAL	9.6	7.7	6.7	5.6	11.3	11.3	26.3	20.4	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	49	44	41	30	17	12	9	29.8	225
06009	54	47	40	30	16	10	3	29.5	160
12015	45	43	39	30	20	13	7	30.3	232
18021	50	46	42	32	19	14	13	31.4	235
TOT	54	44	41	30	18	13	3	30.3	852

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.8	7.7	18.9	32.2	38.5	63	143		
06009	.0	1.9	11.1	17.6	35.2	34.3	64	109		
12015	.7	2.9	8.0	20.3	20.3	47.8	89	138		
18021	.0	3.6	10.7	15.7	34.3	35.7	84	140		
TOT	1	15	49	96	160	208	84	529		

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1892-1971

JANUARY

AREA 0006 CABOT STRAIT
46.0N 58.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	43 46	49 52	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.9	.3	.2	10	.8	.8
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.2	.2	.0	13	.0	2.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.5	.0	.0	8	.3	.9
5	.0	.0	.0	.0	.0	.0	.0	.0	.5	.8	.6	.0	.0	12	.2	1.7
4	.0	.0	.0	.0	.0	.0	.0	.0	1.1	2.0	.8	.0	.0	25	.5	3.3
3	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.6	.2	.0	.0	20	.0	3.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.8	2.0	.0	.0	.0	31	.0	4.7
1	.0	.0	.0	.0	.0	.0	.0	.2	3.6	1.4	.0	.0	.0	34	.5	4.7
0	.0	.0	.0	.0	.0	.0	.0	2.3	3.3	.8	.2	.0	.0	43	.2	6.3
-1	.0	.0	.0	.0	.0	.0	.0	1.2	3.3	.5	.0	.0	.0	33	.2	4.8
-2	.0	.0	.0	.0	.0	.0	.6	3.5	2.9	.3	.0	.0	.0	48	.3	6.9
-3	.0	.0	.0	.0	.0	.0	.5	2.9	1.2	.2	.0	.0	.0	31	.0	4.7
-4	.0	.0	.0	.0	.0	.0	1.4	3.2	.3	.2	.0	.0	.0	33	.2	4.8
-5	.0	.0	.0	.0	.0	.0	3.3	3.9	.6	.0	.0	.0	.0	52	.0	7.8
-6	.0	.0	.0	.0	.0	.6	2.4	2.4	.5	.0	.0	.0	.0	29	.0	5.9
-7/-8	.0	.0	.0	.0	.0	.8	6.0	1.4	.3	.0	.0	.0	.0	56	.0	8.4
-9/-10	.0	.0	.0	.0	.2	2.9	4.4	.9	.0	.0	.0	.0	.0	55	.0	8.3
-11/-13	.0	.0	.0	.2	2.4	3.6	2.0	.6	.2	.0	.0	.0	.0	59	.0	8.9
-14/-16	.0	.0	.0	.5	4.2	1.2	.3	.0	.0	.0	.0	.0	.0	41	.0	6.2
-17/-19	.0	.0	.2	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	13	.0	2.0
-20/-22	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
-23/-25	.0	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.6
-26/-30	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	1	1	5	13	50	80	138	133	78	28	4	1	665	19	646	
PCT	.2	.2	.8	2.0	7.5	9.0	20.8	23.0	20.0	11.7	4.2	.6	.2	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.5	1.0	.0	.0	.0	.0	1.5
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	2.8	.0	.0	.0	2.8
3-4	.0	1.0	1.0	1.3	.0	.0	3.3	.0	.0	.6	.6	.0	.0	1.2
5-6	.0	.0	.5	.4	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.5	.7	.0	1.2	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	1.0	.5	.0	.0	1.5	.0	.0	1.0	.6	.0	.0	1.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.0	.0	.6
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.6	.5	.0	1.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.0	1.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	2.4	3.0	.7	.0	9.6	.5	1.0	5.5	2.8	1.0	.0	10.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.6	.0	.0	.0	1.6	.0	1.0	.2	.0	.0	.0	1.2
3-4	.0	.0	.4	.0	.0	.0	.4	.0	1.5	.0	1.0	.0	.0	2.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.5	.0	.0	2.4
7	.0	.0	.0	.5	.0	.0	.5	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	1.0	.4	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.4	.5	.0	.0	.8	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.3	1.8	.5	.0	5.6	.0	2.4	1.7	2.9	.0	.0	7.0

PERIOD: (OVER-ALL) 1963-1971

JANUARY

AREA 0006 CABOT STRAIT
46.6N 58.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.8	.7	.0	.0	.0	1.6	.0	.6	.7	.0	.0	.0	1.3
1-2	.0	.4	.7	.0	.0	.0	1.1	.0	.1	.0	.0	.0	.0	.1
3-4	.0	1.0	.7	.0	.0	.0	1.7	.0	.5	1.7	.0	.0	.0	2.2
5-6	.0	1.0	1.8	.4	.0	.0	3.2	.0	.0	.4	.6	.0	.0	1.0
7	.0	.0	.0	.3	.0	.0	.5	.0	.5	1.6	.0	.0	.0	2.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5	.0	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	1.6	1.0	.0	3.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.0	1.1
17-19	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.3	.6	.0	1.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	4.0	.8	.5	.0	8.5	.0	2.3	4.9	4.4	2.1	.0	13.6

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	1.6	.5	.0	.0	.0	2.4	.6	2.5	.0	.0	.0	.0	3.2	
1-2	.0	1.9	1.5	.0	.0	.0	3.4	.0	1.7	1.0	.0	.0	.0	2.7	
3-4	.0	.5	1.8	1.0	.0	.0	3.3	.0	.0	1.1	.5	.0	.0	1.6	
5-6	.0	.7	1.7	1.2	.0	.0	2.9	.0	.0	1.9	1.3	.0	.0	3.3	
7	.0	.7	1.8	.4	.4	.0	2.5	.0	.0	2.4	2.1	.4	.0	4.9	
8-9	.0	.4	.0	.5	.0	.0	.8	.0	.1	1.0	1.0	.3	.0	2.5	
10-11	.0	.4	.5	.7	.0	.0	1.6	.0	.0	.0	.6	1.0	.0	1.6	
12	.0	.0	.0	1.7	.4	.0	2.1	.0	.0	.0	.1	.6	.0	.7	
13-16	.0	.0	.0	1.7	.5	.0	2.2	.0	.0	.0	.1	.6	.0	.1	
17-19	.0	.0	.0	.5	.8	.0	1.3	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.5	.5	1.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	4.7	7.8	7.6	2.5	.5	23.5	.6	4.4	7.4	5.7	2.4	.0	20.3	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.4	7.8	1.9	.0	.0	.0	12.1	
1-2	.0	6.3	7.8	.0	.0	.0	14.1	
3-4	.0	4.4	7.3	4.4	.0	.0	16.0	
5-6	.0	1.0	7.3	5.3	.0	.0	13.6	
7	.0	.5	7.3	5.9	1.5	.0	13.1	
8-9	.0	1.0	3.9	3.4	.5	.0	8.7	
10-11	.0	.5	1.5	4.4	1.9	.0	8.2	
12	.0	.0	.0	3.4	1.5	.0	4.9	
13-16	.0	.0	.0	3.4	1.9	.0	5.3	
17-19	.0	.0	.0	1.0	1.9	.0	2.9	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.5	.5	1.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.4	21.4	36.9	29.1	9.7	.5	100.0	206

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	5.1	7.9	7.2	4.3	1.5	1.8	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	5
6-7	.0	.3	2.6	5.6	7.4	4.9	3.1	1.5	2.6	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	8
8-9	.0	.0	2.0	2.0	3.3	2.3	3.6	2.3	3.8	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	80	10
10-11	.0	.0	.8	1.3	.8	1.5	1.0	.8	1.0	1.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	35	10
12-13	.0	.0	.0	.0	.0	.0	.5	.3	.0	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	6	17
13-14	.0	.0	.0	.3	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	13
INDET	1.5	.8	2.3	1.0	1.0	1.0	1.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	5
TOTAL	8	24	61	68	66	44	43	23	33	14	2	3	2	0	0	0	0	0	0	391	8
PCT	2.0	6.1	15.6	17.4	16.9	11.3	11.0	5.9	8.4	3.6	.5	.8	.5	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

 PERIOD: (PRIMARY) 1960-1971
 (OVER-ALL) 1889-1971

 AREA 0006 CABOT STRAIT
 46.8N 58.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.0	2.6	.0	17.0	.0	1.0	20.6	.8	.0	2.3	.0	.0	.0	76.3
NE	2.7	.0	3.3	.0	17.8	.0	.4	22.8	1.8	.0	7.6	.0	.0	.0	67.8
E	24.1	.0	1.9	1.1	17.2	1.1	1.9	45.4	1.9	.0	2.9	.0	.0	.0	49.9
SE	24.5	.0	6.2	1.5	8.8	.0	.0	37.6	7.7	1.5	5.5	.0	1.5	.0	46.4
S	7.3	.0	1.2	.0	10.2	.0	.0	18.8	.0	.0	12.2	1.6	.0	.0	67.3
SW	2.0	1.0	1.0	.0	24.4	.0	.0	27.4	5.9	.0	7.4	.0	1.0	.0	58.3
W	2.2	.6	.8	.0	35.5	.0	.4	38.9	3.7	.0	1.0	.0	.4	.0	55.9
NW	1.0	1.4	.3	.0	20.8	.6	.6	22.6	2.2	.0	1.9	.0	.6	1.7	71.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	13.3	.0	.0	13.3	.0	.0	.0	.0	.0	.0	86.7
TOT PCT TOT OBS:	5.9 931	.5	1.6	.2	22.3	.2	.5	30.2	3.0	.1	3.8	.1	.4	.3	62.1

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00Z03	6.1	.5	.5	.5	23.4	.0	.5	30.8	2.3	.0	2.8	.0	.5	.9	62.6
06Z09	7.5	.5	1.1	.5	20.9	.0	1.1	30.5	4.3	.5	2.7	.5	.5	.0	61.0
12Z15	6.3	1.2	2.4	.0	24.8	.0	.4	32.7	1.2	.0	6.3	.0	.4	.0	59.4
18Z21	4.2	.0	2.1	.0	20.4	.7	.4	27.1	4.2	.0	3.5	.0	.4	.4	64.4
TOT PCT TOT OBS:	5.9	.5	1.6	.2	22.4	.2	.5	30.1	3.0	.1	3.9	.1	.4	.3	62.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.5	2.4	4.9	1.9	.7	.0		10.4	16.8	8.5	16.3	18.1	6.3	6.3	7.5	10.5	10.1	
NE	.5	2.9	2.3	1.2	.5	.1		7.3	15.9	7.8	2.0	6.9	6.3	8.4	6.3	6.9	13.0	
E	.2	2.3	3.1	3.2	1.1	.1		10.1	20.2	13.1	11.2	10.1	5.6	8.1	10.9	10.4	7.5	
SE	.2	1.4	2.3	2.0	1.1	.3		7.3	22.3	5.0	10.2	9.5	10.6	8.3	5.9	6.9	5.8	
S	.4	1.7	2.5	1.1	.8	.0		6.5	17.2	7.2	5.1	5.7	5.0	7.6	5.9	6.7	6.2	
SW	.3	2.0	3.0	1.9	1.0	.5		10.7	20.3	8.4	5.1	10.0	11.9	13.8	11.6	11.9	9.1	
W	.6	2.7	8.0	8.2	5.2	1.4		26.0	25.4	26.9	33.2	18.9	29.4	24.0	35.6	26.1	26.0	
NW	.3	4.1	7.4	5.2	2.9	.1		19.9	20.7	22.5	16.8	18.1	22.3	21.8	17.2	18.3	21.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.6							1.6	.0	.6	.0	2.7	2.5	1.7	.0	2.4	1.3	
TOT OBS	42	185	337	235	125	24	946		20.6		170	49	148	40	172	80	210	
TOT PCT	4.4	19.6	35.6	24.6	13.2	2.5		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WND DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+	00 03				06 09	12 15	18 21	
N	1.4	4.2	3.6	.8	.4		10.4	16.8	10.3	15.6	6.6	10.4	
NE	1.3	3.5	1.4	1.1	.2		7.5	15.9	6.5	6.8	7.7	8.5	
E	1.3	3.0	3.1	2.2	.5		10.1	20.2	12.7	9.2	9.0	9.6	
SE	.6	2.2	2.3	1.3	.9		7.3	22.3	6.2	9.7	7.2	6.6	
S	1.1	2.5	1.7	1.2	.1		6.5	17.2	6.7	5.6	7.0	6.5	
SW	1.1	4.5	2.6	1.4	1.1		10.7	20.3	7.6	10.4	13.1	11.1	
W	1.5	5.5	8.5	6.7	3.8		26.0	25.4	28.3	21.1	27.7	26.0	
NW	1.5	6.5	6.7	4.3	.9		19.9	20.7	21.2	19.0	20.3	19.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.6						1.6	.0	.5	2.7	1.2	2.1	
TOT OBS	108	302	283	179	74	946		20.6	219	188	252	287	
TOT PCT	11.4	31.9	29.9	18.9	7.8		100.0		100.0	100.0	100.0	100.0	

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PERIOD: (PRIMARY) 1960-1971
(OVER-ALL) 1989-1971AREA 0006 CABOT STRAIT
46.8N 58.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOURL	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	.5	2.7	16.4	33.8	28.3	16.0	2.3	22.0	100.0	219
06009	2.7	3.2	19.7	38.8	23.9	10.6	1.1	18.8	100.0	188
12015	1.2	3.2	21.0	34.5	24.2	10.7	5.2	21.3	100.0	252
18021	2.1	2.4	20.6	35.9	22.6	15.0	1.4	20.3	100.0	287
TOT	15	27	185	337	233	125	24	20.6		946
PCT	1.6	2.9	19.6	35.6	24.6	13.2	2.5	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	3.3	.8	2.4	4.1		4.9
NE	1.7	.2	.6	4.7		6.0
E	1.1	.5	1.1	7.6		6.8
SE	.4	.4	1.1	6.2		7.2
S	.4	.1	1.8	3.6		6.8
SW	1.9	.6	1.4	6.7		6.2
W	4.4	2.6	6.0	12.1		5.8
NW	4.5	1.7	5.6	9.0		5.6
VAR	.0	.0	.0	.0		.0
CALM	.8	.3	.1	.3		3.2
TOT OBS	131	51	143	386	711	6.0
TOT PCT	18.4	7.2	20.1	54.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.1	.0	.2	.7	2.4	.7	.1	.1	.0	.0	5.2	
NE	1.2	.1	.2	.6	1.2	.6	.0	.1	.1	.3	2.7	
E	1.9	.0	1.4	1.8	1.4	1.3	.0	.1	.3	.0	2.1	
SE	1.0	.1	.7	1.4	1.7	.8	.0	.6	.1	.5	1.4	
S	.4	.4	.0	.5	1.5	.6	.2	.1	.6	.7	.9	
SW	1.1	.4	.3	1.3	2.7	.9	.1	.5	.0	.2	3.6	
W	2.1	.2	.7	2.4	5.5	3.6	.7	.5	.8	.5	8.1	
NW	1.2	.6	.3	1.9	4.2	3.6	.3	.3	.6	.4	7.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.3	
TOT OBS	72	10	27	75	146	85	10	17	18	19	232	711
TOT PCT	10.1	1.4	3.8	10.5	20.5	12.0	1.4	2.4	2.5	2.7	32.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.7	3.8	4.9	5.0	5.0	5.2	5.2	5.2
= OR >5000	2.8	6.2	7.3	7.4	7.4	7.6	7.6	7.6
= OR >3500	3.4	7.1	8.7	8.8	8.8	9.0	9.0	9.0
= OR >2000	6.6	16.2	19.5	20.4	20.6	20.9	20.9	20.9
= OR >1000	13.4	31.7	37.8	40.9	41.0	41.3	41.5	41.5
= OR >600	16.4	37.0	46.5	50.6	51.3	51.8	52.1	52.1
= OR >300	16.4	37.4	47.5	52.9	54.3	55.3	55.9	55.9
= OR >150	16.4	37.4	47.6	53.2	55.2	56.2	57.3	57.3
= OR >0	16.5	37.8	49.4	57.6	61.6	64.1	67.1	67.4
TOTAL	118	270	353	411	440	458	479	481

TOTAL NUMBER OF OBS: 714

PCT FREQ NH <5/8: 32.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
9.8	6.1	7.8	4.8	3.8	4.1	7.5	8.6	37.7	9.8	733

PERIOD: (PRIMARY) 1960-1971
(OVER-ALL) 1889-1971

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.6	.2	.5	.4	.2	.2	.8	.6	.0	.0	3.4	
	NO PCP	.0	.3	.1	.2	.4	.4	.0	.1	.0	.0	1.5	
	TOT %	.6	.5	.5	.6	.6	.6	.8	.7	.0	.0	4.9	
1/2<1	PCP	.0	.2	.4	.3	.0	.5	.6	.4	.0	.0	2.5	
	NO PCP	.2	.1	.1	.1	.2	.1	.2	.2	.0	.0	1.2	
	TOT %	.2	.3	.5	.5	.2	.5	.8	.7	.0	.0	3.6	
1<2	PCP	.3	.6	1.7	1.1	.1	.3	2.3	.7	.0	.1	7.3	
	NO PCP	.0	.1	.1	.1	.0	.2	.3	.2	.0	.0	1.0	
	TOT %	.3	.7	1.8	1.2	.1	.5	2.6	.9	.0	.1	8.3	
2<5	PCP	.5	.5	1.1	.6	.7	.8	2.7	.9	.0	.1	7.9	
	NO PCP	.6	.1	.2	.2	1.2	1.0	2.1	1.0	.0	.0	6.3	
	TOT %	1.0	.6	1.3	.9	1.9	1.8	4.8	1.9	.0	.1	14.3	
5<10	PCP	.4	.2	.8	.3	.1	1.1	3.4	1.2	.0	.0	7.5	
	NO PCP	2.1	1.6	1.3	2.2	1.6	2.8	6.1	4.5	.0	.6	22.9	
	TOT %	2.5	1.8	2.1	2.5	1.7	3.9	9.6	5.6	.0	.6	30.4	
10+	PCP	.3	.*	.1	.0	.1	.1	.3	.7	.0	.0	1.6	
	NO PCP	5.5	3.4	3.7	1.7	2.0	3.5	7.3	9.1	.0	.8	36.9	
	TOT %	5.8	3.4	3.8	1.7	2.1	3.6	7.5	9.8	.0	.8	38.5	
TOT OBS													932
TOT PCT													
		10.4	7.4	10.1	7.3	6.6	10.9	26.0	19.6	.0	1.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	4-10	.0	.3	.1	.1	.2	.0	.2	.2	.0	.0	1.1	
	11-21	.2	.0	.3	.3	.2	.5	.1	.1	.0	.0	1.7	
	22+	.3	.2	.1	.1	.2	.1	.6	.4	.0	.0	2.0	
	TOT %	.6	.5	.5	.6	.6	.6	.9	.7	.0	.0	5.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.*	.1	.1	.1	.1	.0	.0	.5	
	11-21	.2	.*	.2	.2	.0	.1	.0	.*	.0	.0	.6	
	22+	.0	.2	.4	.3	.1	.3	.6	.5	.0	.0	2.4	
	TOT %	.2	.3	.5	.5	.2	.5	.7	.7	.0	.0	3.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.3	.1	.2	.0	.1	.6	.3	.0	.0	1.5	
	11-21	.2	.1	.3	.1	.0	.1	.4	.3	.0	.0	1.5	
	22+	.1	.4	1.4	.9	.1	.3	1.5	.4	.0	.0	5.1	
	TOT %	.3	.7	1.8	1.2	.1	.5	2.6	.9	.0	.1	8.2	
2<5	0-3	.0	.0	.0	.0	.2	.0	.1	.*	.0	.1	.4	
	4-10	.1	.2	.1	.1	.2	.6	.4	.4	.0	.0	2.1	
	11-21	.5	.*	.2	.5	.6	.6	1.2	.5	.0	.0	4.0	
	22+	.4	.3	1.0	.3	.9	.6	3.1	.9	.0	.0	7.5	
	TOT %	1.0	.6	1.3	.8	1.9	1.8	4.7	1.9	.0	.1	14.1	
5<10	0-3	.2	.3	.1	.0	.1	.2	.0	.0	.0	.6	1.5	
	4-10	.3	.3	.5	.3	.5	.6	.3	1.1	.0	.0	3.9	
	11-21	1.3	1.0	1.0	.8	.8	1.9	2.7	1.7	.0	.0	11.1	
	22+	.7	.2	.6	1.4	.2	1.2	6.4	2.7	.0	.0	13.5	
	TOT %	2.5	1.8	2.1	2.5	1.7	3.8	9.5	5.6	.0	.6	30.0	
10+	0-3	.2	.2	.2	.2	.1	.1	.4	.3	.0	.7	2.2	
	4-10	2.0	1.6	1.5	.7	.8	.6	1.1	2.0	.0	.0	10.4	
	11-21	2.6	1.2	1.2	.5	.8	1.9	3.6	4.7	.0	.0	16.6	
	22+	1.0	.4	.9	.4	.4	1.0	2.5	3.2	.0	.0	9.9	
	TOT %	5.8	3.5	3.8	1.8	2.1	3.6	7.6	10.2	.0	.7	39.1	
TOT OBS													942
TOT PCT													
		10.4	7.4	10.0	7.3	6.6	10.7	26.0	19.9	.0	1.6	100.0	

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PERIOD: (PRIMARY) 1960-1971
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL OBS	NH <5/8 ANY HGT	TOTAL OBS
00003	9.5	2.4	3.6	10.1	19.6	10.7	1.2	.0	2.4	3.0	62.5	37.5	168
06009	11.2	.8	3.2	7.2	31.2	12.8	.0	.0	.8	4.0	71.2	28.8	175
12015	6.9	1.0	3.9	12.8	22.7	12.3	2.0	3.0	1.5	2.0	68.0	32.0	203
18021	12.6	1.4	4.1	10.8	13.1	11.7	1.8	5.0	4.5	2.3	67.1	32.9	222
TOT	72	10	27	76	147	85	10	17	18	19	481	237	718
PCT	10.0	1.4	3.8	10.6	20.5	11.8	1.4	2.4	2.5	2.6	67.0	33.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	5.0	5.0	7.9	14.2	28.9	39.4	218
06009	4.2	1.6	8.5	10.1	31.2	44.4	189
12015	4.3	3.9	9.9	16.7	31.8	34.1	258
18021	6.3	3.8	7.3	14.7	28.0	39.9	286
TOT	48	35	77	135	284	372	951
PCT	5.0	3.7	8.1	14.2	29.9	39.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	9.6	16.8	40.1	26.3	33.5	167
06009	11.5	17.2	30.3	42.6	27.0	122
12015	6.9	14.8	39.9	32.0	28.1	203
18021	12.6	18.9	41.9	29.3	28.8	222
TOT	72	121	278	226	210	714
PCT	10.1	16.9	38.9	31.7	29.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	.0	.0	.5	3	.5
40/44	.0	.0	.0	.0	.0	.7	1.4	1.1	18	3.2
35/39	.0	.2	.0	.4	.2	.4	3.0	6.9	62	11.0
30/34	.0	.0	.0	.2	1.1	7.8	7.8	16.1	158	28.0
25/29	.0	.0	.0	.5	1.8	5.7	8.9	8.7	144	25.5
20/24	.0	.2	.2	.0	1.6	2.1	5.1	6.9	91	16.1
15/19	.0	.0	.0	.0	.7	3.2	6.0	1.2	63	11.2
10/14	.0	.0	.0	.2	.2	.5	1.1	.7	15	2.7
5/9	.0	.0	.0	.2	.2	.7	.2	.4	9	1.6
0/4	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	0	2	1	8	32	91	189	241	584	100.0
PCT	.0	.4	.2	1.4	5.7	16.1	33.5	42.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.2	.2	.2	.0	.0	.0	.0
.0	.4	.6	.7	.8	.4	.0	.4	.0	.0
.6	1.1	3.5	1.2	.9	1.7	1.2	.9	.0	.0
2.0	1.7	4.3	3.2	2.2	4.0	4.8	5.4	.0	.4
3.9	2.7	2.0	2.3	2.3	2.1	5.2	4.6	.0	.4
2.6	2.0	.4	.2	.0	1.6	5.6	3.4	.0	.4
.9	.4	.0	.0	.2	.6	6.4	2.6	.0	.0
.0	.0	.2	.0	.0	.8	1.5	.8	.0	.2
.2	.0	.0	.0	.0	.0	.7	.4	.0	.4
.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
10.2	8.2	11.1	7.7	6.6	10.6	25.6	18.4	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	40	39	37	27	15	10	8	26.5	216
06009	45	42	38	29	15	7	6	27.9	187
12015	45	44	40	28	17	3	1	26.8	255
18021	46	43	37	28	14	7	5	27.4	286
TOT	46	43	38	28	14	7	1	27.1	944

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.3	4.0	14.1	39.6	40.9	87	149		
06009	.0	4.6	5.3	14.7	29.4	45.9	86	109		
12015	.0	.6	6.4	15.4	32.1	45.5	87	156		
18021	.0	1.9	7.8	19.3	31.2	39.6	85	154		
TOT	0	11	34	91	189	243	86	568		

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PERIOD: (PRIMARY) 1960-1971
(OVER-ALL) 1889-1971AREA 0006 CABOT STRAIT
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	03 06	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	1	.2	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.2	5	.3	.5
7/8	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.6	.2	.2	13	.6	1.4
6	.0	.0	.0	.0	.0	.0	.0	.2	.5	.2	.0	.0	5	.3	.5
5	.0	.0	.0	.0	.0	.0	.0	.6	1.3	.0	.0	.0	12	.0	1.9
4	.0	.0	.0	.0	.0	.0	.2	1.1	.9	.0	.0	.0	14	.5	1.7
3	.0	.0	.0	.0	.0	.0	.2	2.2	.9	.2	.0	.0	22	.3	3.2
2	.0	.0	.0	.0	.0	.0	1.1	2.7	.6	.0	.0	.0	28	.0	4.4
1	.0	.0	.0	.0	.0	.0	2.8	3.3	.3	.0	.0	.0	41	.3	6.2
0	.0	.0	.0	.0	.0	.2	3.8	2.7	.2	.0	.0	.0	43	.3	6.5
-1	.0	.0	.0	.0	.0	.2	3.3	1.1	.0	.0	.0	.0	29	.0	4.6
-2	.0	.0	.0	.0	.0	1.4	2.4	1.1	.0	.0	.0	.0	31	.0	4.9
-3	.0	.0	.0	.0	.0	2.5	3.0	.5	.0	.0	.0	.0	38	.0	6.0
-4	.0	.0	.0	.0	.2	3.5	3.2	.3	.0	.0	.0	.0	45	.0	7.1
-5	.0	.0	.0	.0	.3	5.1	1.3	.0	.5	.0	.0	.0	46	.0	7.3
-6	.0	.0	.0	.0	.5	2.2	.5	.3	.2	.0	.0	.0	23	.2	3.5
-7/-8	.0	.0	.0	.0	.0	5.1	3.6	1.3	.3	.0	.0	.0	65	.3	10.0
-9/-10	.0	.0	.0	.0	1.9	4.6	1.9	.2	.3	.0	.0	.0	56	.0	8.8
-11/-13	.0	.0	.0	.5	2.7	2.2	.5	.3	.0	.0	.0	.0	39	.0	6.2
-14/-16	.0	.0	.0	2.4	2.8	.5	.3	.0	.0	.0	.0	.0	38	.0	6.0
-17/-19	.0	.0	1.4	1.9	1.1	.0	.0	.0	.0	.0	.0	.0	28	.0	4.4
-20/-22	.0	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.8
-23/-25	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.6
-26/-30	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	1	5	13	31	85	135	148	106	42	10	3	633	100.0	3.3	96.7
PCT	.2	.8	2.1	4.9	8.5	13.4	21.3	23.4	16.7	6.6	1.6	.5			

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.6	.3	.0	.0	.0		.9	.0	1.5	.3	.0	.0	.0		1.9
1-2	.3	.3	.6	.0	.0	.0		1.3	.0	.4	.9	.0	.0	.0		1.3
3-4	.0	.7	.9	.3	.0	.0		1.8	.0	.3	1.4	.1	.0	.0		1.9
5-6	.0	.0	.8	.5	.0	.0		1.3	.0	.0	.5	.0	.0	.0		.5
7	.0	.3	.7	1.0	.3	.0		2.3	.0	.4	.1	.4	.1	.0		1.0
8-9	.0	.0	.3	.3	.0	.0		.7	.0	.0	.0	.0	.3	.0		.3
10-11	.0	.0	.3	.0	.0	.0		.3	.0	.0	.0	1.0	.0	.0		1.0
12	.0	.0	.0	.3	.3	.0		.7	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.6	.0		.6	.0	.0	.0	.0	.1	.0		.1
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.3		.3
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	1.9	3.8	2.5	1.3	.0		9.8	.0	2.7	3.2	1.5	.5	.3		8.3

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	1.3	.0	.0	.0	.0		1.5	.1	.0	.0	.0	.0	.0		.1
1-2	.0	.6	.6	.0	.0	.0		1.2	.0	.1	.7	.0	.0	.0		.8
3-4	.0	.3	1.0	.6	.0	.0		2.0	.0	.3	.7	.0	.0	.0		1.0
5-6	.0	.3	1.2	.0	.0	.0		1.5	.0	.0	.1	.3	.0	.0		.4
7	.0	.0	.4	1.8	.9	.0		3.3	.0	.0	1.0	.2	.0	.0		1.2
8-9	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.0	.3	.0		.3
10-11	.0	.0	.3	.3	.3	.0		.9	.0	.0	.0	.1	.1	.0		.2
12	.0	.0	.3	.0	.0	.0		.3	.0	.0	.0	.0	.0	.3		.3
13-16	.0	.0	.0	.3	.3	.0		.7	.0	.0	.0	.3	.3	.3		1.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.3		.3	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	2.6	4.1	3.7	1.5	.3		12.4	.1	.4	2.5	.9	.8	.7		5.4

PERIOD: (OVER-ALL) 1963-1971

FEBRUARY

AREA 0006 CABOT STRAIT
46.8N 58.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.3	.3	.0	.0	.0		.7	.0	.3	.0	.0	.0	.0		.3
1-2	.0	1.2	.3	.0	.0	.0		1.4	.0	.8	1.4	.0	.0	.0		2.2
3-4	.0	.0	.3	.6	.0	.0		.9	.3	.7	2.1	.4	.0	.0		3.6
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.8	.1	.0	.0	.0		.9
7	.0	.0	.0	.0	.0	.0		.0	.0	.8	1.4	.0	.0	.0		2.1
8-9	.0	.0	.3	.0	.0	.0		.3	.0	.0	1.0	.0	.0	.0		1.0
10-11	.0	.0	.3	.0	.0	.0		.3	.0	.0	.7	.0	.0	.0		.7
12	.0	.0	.3	.0	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.3	.0		.3	.0	.0	.3	1.4	.2	.1		2.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.3	.0	.0		.7
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.3	.3	.0		.7
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.0		.1
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	1.5	2.0	.6	.3	.0		4.4	.3	1.8	6.5	4.3	.9	.4		14.2

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.7	.0	.0	.0	.0		.7	.0	1.4	.4	.0	.0	.0		1.8
1-2	.0	.3	.3	.0	.0	.0		.7	.0	.3	1.0	.0	.0	.0		1.4
3-4	.0	.3	1.8	.7	.0	.0		2.8	.0	1.4	2.6	.8	.0	.0		4.8
5-6	.0	.0	.5	1.1	.3	.0		1.9	.0	.7	1.3	1.4	.1	.0		3.4
7	.0	.0	1.5	1.8	.7	.0		4.1	.0	.3	1.1	2.2	.3	.0		4.0
8-9	.0	.0	.3	1.7	1.0	.0		3.0	.0	.0	.1	1.4	.0	.0		1.4
10-11	.0	.0	.3	1.7	.0	.0		2.0	.0	.0	.0	.3	.3	.0		.7
12	.0	.0	.0	.3	.3	.0		.6	.0	.0	.0	.1	.3	.0		.4
13-16	.0	.0	.0	1.6	2.9	.6		5.1	.0	.0	.0	.4	.7	.0		1.1
17-19	.0	.0	.0	.9	.3	.0		1.3	.0	.0	.0	.4	.3	.0		.7
20-22	.0	.0	.0	.0	.7	.0		.7	.0	.0	.0	.0	.3	.0		.0
23-25	.0	.0	.0	.3	.3	.7		1.3	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	1.4	4.8	10.2	6.5	1.3		24.1	.0	4.1	6.5	7.0	2.8	.3		99.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.0	6.1	1.4	.0	.0	.0	8.5	
1-2	.3	4.1	9.8	.0	.0	.0	10.2	
3-4	.3	4.1	10.9	9.4	.0	.0	18.7	
5-6	.0	1.0	9.1	9.4	.3	.0	9.9	
7	.0	1.0	9.8	8.8	2.4	.0	18.0	
8-9	.0	.0	2.0	9.7	1.7	.0	7.5	
10-11	.0	.0	1.4	4.1	.7	.0	6.1	
12	.0	.0	.7	.7	1.0	.3	2.7	
13-16	.0	.0	.3	4.1	5.4	1.0	10.9	
17-19	.0	.0	.0	1.7	1.4	.0	3.1	
20-22	.0	.0	.0	.3	1.4	1.0	2.7	
23-25	.0	.0	.0	.3	.3	1.0	1.7	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	16.3	33.3	30.6	14.6	3.4	100.0	294

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	3.7	9.4	6.7	6.2	.5	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	127	4
6-7	.0	.5	3.0	6.9	5.0	3.9	2.1	.9	3.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	114	8
8-9	.0	.2	.9	.5	4.4	1.8	3.0	1.1	2.3	2.8	.5	1.1	.0	.0	.0	.0	.0	.0	.0	81	11
10-11	.0	.0	.5	.2	1.1	2.5	.5	.0	.9	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	30	10
12-13	.0	.0	.2	.0	.2	.5	.2	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	8	11
>13	.0	.0	.0	.0	.5	.0	.2	.0	.5	.0	.5	.0	.3	.0	.0	.0	.0	.0	.0	9	16
INDEX	1.6	.7	3.9	.9	1.8	.7	.9	.9	2.1	.7	.5	.0	.0	.9	.0	.0	.0	.0	.0	67	9
TOTAL	13	22	78	66	84	43	34	14	39	18	11	8	2	4	0	0	0	0	0	436	8
PCT	3.0	5.0	17.9	15.1	19.3	9.9	7.8	3.2	8.9	4.1	2.5	1.8	.5	.9	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1964-1971
(OVER-ALL) 1893-1971

MARCH

AREA 0006 CABOT STRAIT
46.8N 58.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.6	.9	2.6	.0	14.7	.0	.0	23.4	1.5	.0	5.0	.5	.5	.0	69.2
NE	1.2	.2	4.4	.0	13.6	.8	.0	20.0	2.6	.0	11.4	.4	1.8	.0	63.7
E	6.8	1.5	3.8	2.5	17.1	1.7	.0	23.3	5.1	.0	6.1	.4	1.5	.0	52.6
SE	8.1	.6	2.3	1.2	14.1	1.2	.0	27.4	.0	.0	17.3	.0	2.6	.0	52.7
S	1.9	.8	3.7	.0	13.0	.0	.0	19.3	1.9	.0	17.7	.0	2.9	.0	58.2
SW	1.9	.0	.0	.0	11.6	.9	.0	14.4	1.9	.0	9.3	.0	.0	.0	74.4
W	1.3	.4	.0	.3	19.3	.0	.0	21.1	1.6	.0	1.1	.0	.5	.5	75.3
NW	3.4	.1	1.2	.0	16.7	.3	.3	20.8	2.4	.0	2.0	.0	.5	.0	74.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	11.1	.0	.0	.0	.0	.0	11.1	.0	.0	16.7	.0	.0	.0	72.2
TOT PCT	3.5	.7	2.0	.4	15.3	.5	.1	22.1	2.1	.0	7.2	.2	1.0	.1	67.4
TOT OBS:	1159														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.6	.0	2.7	.4	13.8	.4	.0	21.2	1.2	.0	6.2	.4	1.5	.0	69.6
0600	6.3	3.2	.8	.8	15.1	1.6	.0	26.2	4.0	.0	7.1	.0	.0	.0	62.7
1200	1.6	.5	1.8	.5	14.8	.5	.3	20.1	1.3	.0	8.6	.3	1.0	.0	68.8
1800	3.7	.5	2.0	.2	16.7	.2	.0	23.2	2.7	.0	6.5	.0	1.0	.2	66.3
TOT PCT	3.5	.7	2.0	.4	15.3	.5	.1	22.0	2.0	.0	7.2	.2	1.0	.1	67.5
TOT OBS:	1171														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	4.3	8.1	3.3	1.1	.2		17.1	17.6		19.7	23.0	11.3	20.0	15.7	22.3	13.7	19.4
NE	.2	2.8	4.6	2.2	.7	.1		10.6	17.0		13.1	8.1	8.0	12.5	10.1	7.0	11.7	13.0
E	.1	2.4	3.7	2.5	1.5	.1		10.3	20.2		12.1	7.8	19.3	12.5	9.7	9.9	7.5	7.8
SE	.1	2.2	3.4	1.3	.4	.0		7.4	15.6		4.7	4.7	13.5	7.5	7.8	4.7	8.5	8.0
S	.3	2.8	3.3	1.3	.4	.0		8.1	15.6		9.0	11.8	9.3	2.5	9.2	7.2	7.0	6.0
SW	.5	3.0	4.8	1.5	.3	.0		10.2	15.1		10.0	9.1	9.1	15.0	10.9	8.5	10.6	10.6
W	.5	2.8	6.9	5.0	2.0	.5		17.7	21.0		16.4	15.5	15.0	17.5	15.9	22.5	18.6	20.0
NW	.5	3.2	6.9	4.6	1.6	.0		16.8	19.3		14.5	18.6	12.6	12.5	17.1	18.0	20.0	15.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0		.5	1.4	1.7	.0	9.6	.0	2.5	.0
TOT OBS	48	282	500	260	96	11	1197		17.9		198	74	115	20	248	139	278	125
TOT PCT	4.0	23.6	41.8	21.7	8.0	.9		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	1.5	7.8	5.2	2.2	.5			17.1	17.6	20.6	12.6	18.1	15.4
NE	1.0	5.5	2.6	1.2	.4			10.6	17.0	11.8	8.7	9.0	12.1
E	1.0	3.6	3.3	1.8	.6			10.3	20.2	10.9	18.3	9.8	7.6
SE	.7	4.2	2.0	.5	.0			7.4	15.6	4.7	12.6	6.7	8.3
S	1.0	4.0	2.1	1.0	.0			8.1	15.6	9.7	8.3	8.5	6.7
SW	2.0	3.4	4.1	.7	.0			10.2	15.1	9.7	10.0	10.0	10.6
W	1.0	6.4	5.8	3.6	.9			17.7	21.0	16.2	15.4	18.3	19.0
NW	1.3	6.0	6.2	3.2	.3			16.8	19.3	15.6	12.6	17.4	18.5
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	.7	1.5	2.3	1.7
TOT OBS	134	488	375	168	32	1197		17.9		272	135	387	403
TOT PCT	11.2	40.8	31.3	14.0	2.7			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1964-1971
(OVER-ALL) 1893-1971

MARCH

AREA 0006 CAROT STRAIT
46.8N 58.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	.7	2.6	26.5	43.4	17.3	8.5	1.1	17.2	100.0	272
06009	1.5	.0	24.4	38.3	26.7	8.1	.7	18.7	100.0	135
12015	2.3	3.1	25.8	39.5	22.5	5.9	.8	17.1	100.0	387
18021	1.7	2.2	19.1	43.9	22.3	9.7	1.0	18.8	100.0	403
TOT	20	28	282	500	260	96	11	17.9		1197
PCT	1.7	2.3	23.6	41.8	21.7	8.0	.9		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.0	1.2	5.3	8.8		6.0
NE	1.5	.8	2.0	6.9		6.3
E	.8	.5	1.2	7.3		6.9
SE	.6	.6	1.2	5.2		6.7
S	1.5	.9	1.3	4.4		5.8
SW	2.8	1.5	2.3	3.5		4.9
W	6.1	2.6	4.4	4.8		4.5
NW	4.7	2.0	4.8	4.7		4.8
VAR	.0	.0	.0	.0		.0
CALM	.5	.0	.0	.3		3.6
TOT OBS	219	104	229	469	1021	5.6
TOT PCT	21.4	10.2	22.4	45.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 499	500 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
2.1	.3	1.0	1.9	2.7	2.1	.2	.3	.3	.4	7.1	
2.0	.4	.7	1.7	1.8	1.7	.2	.4	.3	.1	3.4	
1.9	.1	.1	1.2	1.8	1.0	.2	.6	.3	.2	2.4	
1.9	.1	.1	.4	1.2	.6	.1	.6	.3	.3	2.2	
1.6	.1	.1	.3	.9	.8	.1	.2	.2	.1	3.3	
.8	.1	.1	.3	1.0	.8	.2	.3	.4	.2	5.6	
.8	.1	.3	1.6	2.6	1.7	.2	.4	.3	.2	9.7	
.8	.1	.4	.7	2.3	2.2	.6	.7	.2	.2	8.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.0	.0	.0	.0	.0	.0	.1	.1	.0	.5	
123	11	22	77	146	113	19	32	27	18	433	
12.0	1.1	2.2	7.5	14.3	11.1	1.9	3.1	2.6	1.8	42.4	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.5	4.1	4.4	4.4	4.4	4.4	4.4	4.4
= OR >5000	2.4	6.7	7.5	7.5	7.5	7.5	7.5	7.5
= OR >3500	3.3	8.6	9.4	9.4	9.4	9.4	9.4	9.4
= OR >2000	6.8	18.0	20.0	20.4	20.4	20.4	20.4	20.4
= OR >1000	12.4	28.1	32.9	34.2	34.6	34.7	34.7	34.7
= OR >600	13.6	31.8	38.9	40.9	41.8	42.2	42.2	42.2
= OR >300	13.8	32.6	40.3	42.6	43.8	44.3	44.3	44.3
= OR >150	13.8	32.8	40.9	43.4	44.7	45.3	45.4	45.4
= OR >0	13.8	32.9	42.6	46.9	50.1	53.5	56.9	57.3
TOTAL	142	339	438	443	516	551	585	590

TOTAL NUMBER OF OBS 1029

PCT FREQ NH <5/8 42.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.9	11.0	6.8	6.5	3.7	4.1	5.0	8.4	29.0	11.6	1032

PERIOD: (PRIMARY) 1964-1971
(COVER-ALL) 1893-1971

MARCH

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.0	.5	.6	.4	.6	.5	.0	.2	.0	.0	3.4	
	NO PCP	.7	.8	.2	1.0	.7	.5	*	.1	.0	.1	3.6	
	TOT %	1.3	1.2	.8	1.4	1.2	.7	*	.3	.0	.1	7.0	
1/2<1	PCP	.4	.2	.6	.2	.3	.7	.4	.2	.0	.0	2.5	
	NO PCP	.1	.2	.5	.1	.2	.1	.1	*	.0	.0	1.1	
	TOT %	.5	.4	1.0	.3	.5	.7	.5	.3	.0	.0	3.6	
1<2	PCP	.5	.1	.6	.6	.0	.7	.9	.5	.0	.7	3.3	
	NO PCP	.1	.3	.3	.1	.2	.3	.0	*	.0	.0	1.2	
	TOT %	.6	.3	.9	.7	.2	.4	.9	.5	.0	.7	4.5	
2<5	PCP	1.5	.8	1.5	.7	.5	.7	1.1	1.5	.0	.0	7.8	
	NO PCP	.7	.4	.8	.3	.6	.7	.2	.8	.0	.0	4.0	
	TOT %	2.2	1.2	2.3	1.0	1.2	.4	1.4	2.3	.0	.0	11.8	
5<10	PCP	.7	.7	.3	.2	.2	.6	1.0	1.0	.0	.1	4.8	
	NO PCP	6.2	2.8	2.5	1.8	2.7	3.6	5.6	4.4	.0	.3	29.9	
	TOT %	6.9	3.5	2.8	2.0	2.9	4.2	6.6	5.5	.0	.3	34.7	
10+	PCP	.0	*	.1	.0	.0	.1	.2	.1	.0	.1	.6	
	NO PCP	5.8	4.2	2.6	2.2	2.1	3.9	8.2	7.7	.0	1.0	37.7	
	TOT %	5.8	4.2	2.7	2.2	2.1	4.0	8.4	7.8	.0	1.1	38.3	
TOT OBS													1165
TOT PCT													17.3 10.8 10.4 7.6 8.1 10.0 17.8 16.5 .0 1.5 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.1	.0	.0	.1	.0	.1	.3	
	4-10	.6	.5	.3	.3	.1	.4	.0	.1	.0	.0	2.3	
	11-21	.3	.4	.2	.6	.5	.1	.0	.1	.0	.0	2.1	
	22+	.4	.4	.3	.4	.5	.2	*	*	.0	.0	2.2	
	TOT %	1.3	1.2	.7	1.4	1.2	.7	*	.3	.0	.1	6.9	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	4-10	.1	.3	.2	.0	.0	.0	.1	*	.0	.0	.7	
	11-21	.1	.1	.3	.2	.1	.2	.2	*	.0	.0	1.3	
	22+	.1	.0	.5	.1	.3	*	.2	.2	.0	.0	1.5	
	TOT %	.4	.4	1.0	.3	.4	.2	.5	.3	.0	.0	3.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.4	.1	.0	.1	.1	.0	.1	.0	.0	.0	.8	
	11-21	.1	.2	.5	.4	.1	.3	.2	.1	.0	.0	1.8	
	22+	.1	*	.4	.2	.1	.1	.7	.4	.0	.0	1.9	
	TOT %	.6	.3	.9	.7	.2	.4	.9	.5	.0	.0	4.5	
2<5	0-3	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	4-10	.6	.5	.2	.3	.5	.1	.2	.2	.0	.0	2.6	
	11-21	1.0	.4	.8	.4	.3	.2	.1	.9	.0	.0	4.0	
	22+	.6	.1	1.3	.4	.4	.1	.9	1.2	.0	.0	4.9	
	TOT %	2.2	1.1	2.3	1.0	1.2	.4	1.3	2.2	.0	.0	11.7	
5<10	0-3	.0	.1	*	.0	.0	.2	.2	.2	.0	.3	1.0	
	4-10	.9	.5	.8	.9	1.0	1.0	.7	.5	.0	.0	6.3	
	11-21	3.4	1.8	1.1	.6	1.4	2.2	2.2	2.0	.0	.0	14.7	
	22+	2.5	1.0	.8	.4	.4	.8	3.5	2.6	.0	.0	12.0	
	TOT %	6.8	3.4	2.7	1.9	2.9	4.2	6.5	5.4	.0	.3	34.0	
10+	0-3	.0	*	.1	*	.2	.3	.1	.3	.0	1.2	2.3	
	4-10	1.7	1.0	.9	.7	1.0	1.5	1.8	2.4	.0	.0	11.1	
	11-21	3.4	1.8	.9	1.3	.9	1.9	4.2	3.7	.0	.0	18.0	
	22+	.9	1.5	.9	.2	.0	.5	2.2	1.8	.0	.0	8.1	
	TOT %	6.0	4.2	2.7	2.3	2.1	4.3	8.4	8.2	.0	1.2	39.4	
TOT OBS													1191
TOT PCT													17.2 10.7 10.3 7.5 8.1 10.1 17.7 16.8 .0 1.6 100.0

MARCH

PERIOD: (PRIMARY) 1966-1971
(OVER-ALL) 1893-1971AREA 0006 CABOT STRAIT
46.8N 58.8W

TABLE 10

PERCENT FREQUENCY OF CRILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	10.2	1.3	3.4	8.5	12.8	10.6	1.3	.4	.9	1.7	51.1	48.9	235
06009	12.3	.0	.0	9.4	20.8	9.4	4.7	.0	.9	.9	58.5	41.5	106
12015	12.8	.9	2.7	7.1	14.3	10.7	.3	3.3	2.7	3.3	58.0	42.0	336
18021	12.1	1.4	1.4	6.5	13.8	11.8	3.1	5.6	4.2	.6	60.4	39.6	356
TOT	123	11	22	77	149	113	20	32	27	18	592	441	1093
PCT	11.9	1.1	2.1	7.5	14.4	10.9	1.9	3.1	2.6	1.7	57.3	42.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	6.6	2.2	3.7	12.1	34.6	40.8	272
06009	5.9	5.1	9.1	12.5	22.8	48.5	136
12015	8.2	4.1	3.6	11.8	33.5	38.9	391
18021	6.2	3.5	9.9	10.6	37.0	36.8	405
TOT	83	43	55	139	406	478	1204
PCT	6.9	3.6	4.6	11.5	33.7	39.7	100.0

TABLE 12

CUMULATIVE PCT. FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 9+	TOTAL OBS
00003	10.3	16.2	31.2	22.2	46.6	234
06009	13.3	16.2	35.2	27.6	37.1	105
12015	12.8	18.5	32.2	27.8	40.0	335
18021	12.1	16.3	30.1	32.4	37.5	355
TOT	124	175	325	289	415	1029
PCT	12.1	17.0	31.6	28.1	40.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
43/49	.0	.0	.0	.0	.0	.1	.4	.0	4	.5
40/44	.0	.0	.0	.0	.6	.4	.5	.9	19	2.3
35/39	.0	.0	.0	.0	.6	1.7	5.1	10.2	143	17.6
30/34	.0	.0	.1	.6	1.4	4.4	12.0	21.0	320	39.5
25/29	.0	.0	.1	.1	1.8	4.3	7.4	7.4	172	21.2
20/24	.0	.0	.1	.4	1.5	2.8	3.2	3.7	95	11.7
15/19	.0	.0	.0	.4	1.4	.9	2.1	.7	44	5.4
10/14	.0	.0	.0	.0	.2	.4	.6	.4	13	1.6
5/9	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	3	12	61	122	254	359	811	100.0
PCT	.0	.0	.4	1.5	7.5	15.0	31.3	44.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.2	.2	.0	.0	.1	.0	.0
.1	.4	.4	.4	.2	.4	.2	.2	.0	.0
4.1	1.7	1.0	2.1	3.3	2.3	1.4	1.6	.0	.1
8.8	5.7	3.6	3.0	3.5	4.1	5.9	4.7	.0	.1
4.3	1.8	1.7	1.5	1.5	1.2	4.9	4.1	.0	.1
2.3	1.5	.3	.8	.2	1.3	3.6	1.8	.0	.0
.6	.2	.3	.0	.3	.8	2.1	.9	.0	.1
.2	.2	.0	.0	.1	.2	.5	.5	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
20.4	11.5	7.3	8.0	9.3	10.5	18.6	13.9	.0	.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	48	41	37	31	19	12	11	29.3	269
06009	47	46	37	31	20	14	14	30.5	136
12015	49	42	38	31	18	11	9	29.8	388
18021	46	43	40	32	20	15	13	31.0	401
TOT	49	43	38	31	18	14	9	30.2	1194

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.9	6.1	13.0	28.2	49.8	87	213
06009	.0	2.5	7.4	11.1	28.4	50.6	86	81
12015	.0	1.9	7.5	13.7	32.5	42.5	86	268
18021	.0	2.7	8.5	16.2	32.3	40.4	85	260
TOT	0	16	61	125	254	366	86	822

PERIOD: (PRIMARY) 1966-1971
(OVER-ALL) 1893-1971

MARCH

AREA 0006 CABOT STRAIT
46.0N 98.0W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 17	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	WU FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	1.1
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.3	.9
7/8	.0	.0	.0	.0	.0	.0	2.4	.5	.2	.0	19	.9	2.1
6	.0	.0	.0	.0	.0	.0	.8	.5	.3	.2	11	.5	1.3
5	.0	.0	.0	.0	.0	.0	1.6	1.3	.2	.0	19	.9	2.1
4	.0	.0	.0	.0	.0	.0	3.9	.9	.2	.0	32	.9	4.1
3	.0	.0	.0	.0	.0	1.4	5.0	.9	.0	.0	47	1.3	6.1
2	.0	.0	.0	.0	.0	2.8	3.2	.3	.0	.0	40	.3	6.0
1	.0	.0	.0	.0	.0	4.9	3.6	.3	.0	.0	56	.9	7.9
0	.0	.0	.0	.0	.2	6.2	3.0	.0	.0	.0	59	.0	9.3
-1	.0	.0	.0	.0	1.3	7.4	1.7	.0	.0	.0	66	.0	10.4
-2	.0	.0	.0	.0	2.4	5.2	.6	.0	.0	.0	52	.3	7.9
-3	.0	.0	.0	.0	3.5	3.2	.2	.0	.0	.0	43	.0	6.8
-4	.0	.0	.0	.0	3.8	1.3	.2	.0	.0	.0	33	.0	5.2
-5	.0	.0	.0	1.4	3.0	.8	.0	.0	.0	.0	33	.2	5.0
-6	.0	.0	.0	1.9	.9	.2	.0	.0	.0	.0	19	.0	3.0
-7/-8	.0	.0	.0	2.7	1.3	.2	.0	.0	.0	.0	26	.2	3.9
-9/-10	.0	.0	.0	1.6	.9	.0	.0	.0	.0	.0	21	.0	2.3
-11/-13	.0	.0	2.7	1.1	.2	.3	.0	.0	.0	.0	27	.2	4.1
-14/-16	.0	.8	.6	.2	.0	.0	.0	.0	.0	.0	10	.0	1.6
-17/-19	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	5	.0	.4
-20/-22	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	2	8	27	56	110	214	151	46	16	4	634	44	590
PCT	.3	1.3	4.3	8.8	17.4	33.8	23.8	7.3	2.5	.6	100.0	6.9	93.1

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.4	.3	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.4	.0	.0	.0	1.4	.0	1.6	.5	.0	.0	.0	.0	.0	2.1
3-4	.0	.0	1.4	.3	.0	.0	1.7	.0	.9	3.5	.0	.0	.0	.0	.0	4.4
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	1.0	.8	.0	.0	.0	.0	1.8
7	.0	.0	.8	.6	.0	.0	1.4	.0	.0	.4	1.9	.0	.0	.0	.0	2.3
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.8	.0	.0	.0	.8
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.4	.4	.0	.8	.0	.0	.0	.5	.0	.0	.0	.0	.5
17-19	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	4.8	1.7	1.9	.0	9.9	.0	2.5	5.4	3.2	1.1	.0	.0	.0	12.2

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	.2	.5	.0	.0	.0	.0	.0	.7
1-2	.0	1.3	1.4	.0	.0	.0	2.7	.0	1.2	3.7	.0	.0	.0	.0	.0	5.0
3-4	.0	.3	.7	1.2	.0	.0	2.2	.0	.4	1.3	.8	.0	.0	.0	.0	2.5
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.1	.4	.5	.9	.0	.0	.0	1.9
7	.0	.0	.0	1.8	.0	.0	1.8	.0	.0	.0	.9	.0	.0	.0	.0	.9
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.4	.4	.0	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.7	.7	.0	1.4	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	1.1	.3	1.4	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	3.6	4.8	2.6	.3	13.9	.1	1.9	5.9	2.3	1.4	.1	.1	.0	11.7

PERIOD: (OVER-ALL) 1963-1971

MARCH

TABLE 18 (CONT)

AREA 0006 CABOT STRAIT
46.0N 58.0W

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.3	.3	.0	.0	.0		.6	.8	.9	.1	.0	.0	.0		1.8
1-2	.7	1.1	.4	.0	.0	.0		2.2	.4	2.1	.2	.0	.0	.0		2.7
3-4	.0	.4	1.4	.0	.0	.0		1.8	.0	.8	1.7	.9	.0	.0		3.4
5-6	.0	.3	1.4	.3	.9	.0		2.3	.0	.0	.6	.0	.0	.0		.6
7	.0	.0	.4	.0	.0	.0		.4	.0	.1	1.2	.4	.0	.0		1.6
8-9	.0	.0	.4	.8	.0	.0		1.2	.0	.0	.4	.4	.0	.0		1.3
10-11	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.1	.0	.0		.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.1	.0	.0		.1
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.7	2.1	4.3	1.8	.3	.0		9.2	1.2	3.9	4.2	1.9	.9	.0		11.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	1.2	.6	.0	.0	.0		1.8	.4	1.4	1.0	.0	.0	.0		2.8	
1-2	.0	.8	2.2	.0	.0	.0		3.0	.0	1.3	.4	.0	.0	.0		1.7	
3-4	.0	.4	3.4	1.0	.0	.0		4.8	.0	.0	3.0	1.0	.0	.0		4.0	
5-6	.0	.0	1.1	1.9	.0	.0		3.0	.0	.0	2.3	.3	.0	.0		3.0	
7	.0	.0	1.1	.8	.0	.0		1.9	.0	.0	.9	.0	.0	.0		.9	
8-9	.0	.3	.0	.0	.3	.0		.6	.0	.0	.0	.0	.1	.0		.1	
10-11	.0	.0	.0	.7	.6	.0		1.3	.0	.0	.0	.0	.2	.0		.2	
12	.0	.0	.0	.4	.4	.0		.8	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.4	.0		.4	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.7	.0		.7	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	2.7	8.4	4.8	2.4	.0		18.3	.4	2.7	7.8	1.3	.3	.0		12.7	99.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.6	6.4	2.8	.0	.0	.0	10.8	
1-2	1.2	10.4	9.2	.0	.0	.0	20.8	
3-4	.0	3.2	16.4	4.2	.0	.0	24.8	
5-6	.0	.4	9.6	4.0	1.2	.0	15.2	
7	.0	.0	4.8	6.4	.0	.0	11.2	
8-9	.0	.4	.8	2.0	1.6	.0	4.8	
10-11	.0	.0	.8	1.6	1.2	.0	3.6	
12	.0	.0	.0	.8	.8	.0	1.6	
13-16	.0	.0	.0	2.0	1.6	.0	3.6	
17-19	.0	.0	.0	.0	1.2	.0	1.2	
20-22	.0	.0	.0	.0	1.2	.4	1.6	
23-25	.0	.0	.0	.0	.4	.0	.4	
26-32	.0	.0	.0	.0	.4	.0	.4	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.6	20.8	44.4	22.0	9.6	.4	100.0	230

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.4	12.6	15.7	8.2	2.1	1.0	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	173	3
6-7	.0	1.0	2.6	5.9	4.6	3.4	1.0	.5	1.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	7
8-9	.3	.8	1.5	1.3	1.3	1.0	1.8	1.5	1.5	.5	.5	.0	.5	.0	.0	.0	.0	.0	.0	50	9
10-11	.0	.3	.0	.0	.3	.5	.3	.5	.8	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	13	12
12-13	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDFT	2.6	.8	2.8	1.3	4.1	1.3	1.3	1.3	.3	.3	.8	.3	.3	.0	.0	.0	.0	.0	.0	68	7
TOTAL	24	60	88	66	48	23	17	17	6	7	1	3	1	3	0	0	0	0	0	388	6
PCT	6.2	15.5	22.7	17.0	12.4	7.2	5.9	4.4	4.4	1.5	1.8	.3	.8	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1954-1970
(OVER-ALL) 1907-1970

APRIL

AREA 0000 CABOT STRAIT
46.0N 98.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRFL	PRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WO PCPN	FGG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.6	.0	.4	1.2	13.8	.0	.0	17.9	2.5	.0	9.0	.0	.0	.0	70.6
NP	5.0	.0	3.6	.2	12.0	.0	.0	21.2	1.9	.0	13.0	.0	.2	.0	63.7
E	10.4	2.2	5.1	.9	3.8	.0	.0	23.1	2.6	.0	13.0	.0	1.9	.0	57.4
SE	11.7	.0	3.1	1.2	2.5	.0	.2	20.3	2.5	.0	34.4	1.6	.0	.0	41.0
S	8.5	.5	3.4	.0	6.1	.0	.3	17.9	.7	.0	20.2	.0	1.2	.0	60.0
SW	5.2	1.2	.0	.0	4.3	.0	.0	10.1	1.3	.0	15.4	1.3	.9	.0	70.9
W	.4	.4	.4	.0	10.3	.0	.0	10.8	3.4	.0	7.2	.3	1.5	.0	76.8
NW	1.2	.8	.4	.1	11.3	.8	.4	13.9	2.6	.0	3.6	.4	.1	.0	79.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	7.3	.0	2.5	.0	.0	10.0	2.5	.0	12.5	.0	5.0	.0	70.0
TOT PCT	4.8	.8	2.0	.4	8.7	.1	.1	16.0	2.3	.0	12.9	.4	.8	.0	67.6
TOT OBS:	1444														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	PRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WO PCPN	FGG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.8	.3	2.9	1.3	7.7	.0	.3	16.0	2.9	.0	12.8	.6	.6	.0	67.1
0600	6.3	1.3	1.3	.0	6.7	.0	.0	14.7	2.2	.0	10.3	.4	.0	.0	72.3
1200	2.9	.2	1.7	.2	9.1	.4	.2	14.1	2.5	.0	13.3	.6	.4	.0	69.2
1800	5.7	1.3	2.0	.2	9.9	.0	.0	18.1	1.8	.0	13.5	.0	1.8	.0	64.9
TOT PCT TOT OBS:	4.7	.7	2.0	.4	8.7	.1	.1	15.8	2.3	.0	12.8	.4	.8	.0	67.9
	1473														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)					
		4-10	11-21	22-33	34-47	48+	00					03	06	09	12	15	18	21
N	.8	4.5	4.5	3.0	1.2	.0		15.9	16.5	20.8	19.8	12.5	9.0	15.6	13.3	14.9	19.0
NE	.3	3.2	3.2	1.2	.2	.0		8.1	14.1	7.6	4.4	9.9	4.3	11.2	7.0	7.4	4.6
E	.3	3.2	3.3	2.2	.8	.1		9.9	16.8	7.2	7.9	8.1	10.6	11.6	13.6	10.9	6.3
SE	.3	3.2	3.3	1.6	.1	.2		8.6	14.9	6.2	17.1	7.8	12.2	8.3	8.1	8.6	11.5
S	1.2	3.6	4.0	1.3	.1	.0		10.1	12.7	9.2	13.5	8.7	11.2	8.7	9.7	11.3	13.9
SW	.3	3.8	3.5	1.7	.4	.1		11.7	14.8	10.0	14.7	18.1	12.2	13.4	10.1	8.1	11.5
W	.6	4.6	6.3	3.5	.9	.0		16.0	16.2	16.3	9.9	17.5	18.6	13.4	17.2	16.5	19.2
NW	.3	4.2	6.6	4.2	1.5	.1		16.8	18.6	18.1	6.3	15.2	17.6	16.9	19.0	18.6	13.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8							2.8	.0	4.7	6.3	2.2	4.3	.9	1.9	3.7	1.0
TOT OBS	102	452	578	280	76	5	1493		15.5	258	63	186	47	329	154	352	104
TOT PCT	6.8	30.3	34.7	18.8	5.1	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	2.2	6.9	4.5	2.0	.3		15.9	16.5	20.8	11.8	14.9	15.8	
NE	1.4	3.9	2.2	.6	.0		6.1	14.1	6.9	8.8	9.8	6.7	
E	1.3	4.2	2.9	1.3	.1		9.9	16.8	7.3	8.6	12.2	9.8	
SE	1.2	4.0	3.1	.2	.2		8.6	14.9	8.3	8.7	8.2	9.3	
S	2.7	4.6	2.5	.4	.0		10.1	12.7	10.0	9.2	9.0	11.9	
SW	1.8	6.1	2.8	.9	.1		11.7	14.8	10.9	17.0	12.4	8.9	
W	2.8	6.4	4.7	2.1	.0		16.0	16.2	15.0	17.7	14.6	17.2	
NW	2.0	6.2	5.3	3.0	.4		16.8	18.6	15.8	15.7	17.6	17.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.8						2.8	.0	5.0	2.6	1.2	3.1	
TOT OBS	270	630	418	159	16	1493		15.5	321	233	483	456	
TOT PCT	18.1	42.2	28.0	10.6	1.1		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1958-1970
(OVER-ALL) 1887-1970

APRIL

AREA 0006 CABOT STRAIT
46.8N 58.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	5.0	5.6	28.3	42.1	15.0	4.0	.0	14.2	100.0	321
06009	2.6	3.4	33.9	42.5	15.5	2.1	.0	13.8	100.0	233
12015	1.2	3.9	30.2	39.8	18.8	5.6	.4	15.9	100.0	483
18021	3.1	3.3	29.8	33.3	23.0	6.8	.7	16.6	100.0	456
TOT	42	60	452	578	280	76	5	15.5		1493
PCT	2.8	4.0	30.3	38.7	18.8	5.1	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL OBS	MEAN CLOUD COVER
N	4.7	1.3	2.4	8.3		5.3
NE	1.5	.6	1.3	5.1		6.1
E	.9	.1	.9	7.4		7.0
SE	.9	.6	1.2	4.8		6.5
S	2.4	1.2	1.7	4.8		5.4
SW	4.2	.9	1.4	4.6		4.6
W	6.7	1.8	3.6	4.4		4.1
NW	6.4	2.0	4.7	4.8		4.3
VAR	.0	.0	.0	.0		.0
CALM	.7	.3	.7	1.0		5.1
TOT	338	104	214	539	1195	5.2
TOT PCT	28.3	8.7	17.9	45.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
1.2	1.7	1.0	1.5	2.2	1.5	.4	.2	.4	.4	6.9	
.9	.3	.3	1.4	1.2	1.0	.4	.1	.1	.1	2.6	
1.7	.1	.3	1.0	1.9	.9	.3	.5	.3	.2	2.1	
1.9	.4	.2	.5	.9	1.0	*	*	.1	.4	1.9	
1.9	.4	.1	.3	1.1	.6	.4	.2	.2	.3	4.3	
1.3	.7	.2	.6	1.2	1.0	*	.1	.4	.2	5.8	
.4	.0	.3	.9	1.8	1.7	.3	.6	.3	.3	10.1	
.6	.0	.9	.8	2.3	2.1	.4	.5	.4	.4	9.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.2	.0	.0	.4	.4	.2	.1	.2	.0	.0	1.2	
120	30	38	90	154	120	27	29	28	29	530	1195
10.0	2.5	3.2	7.5	12.9	10.0	2.3	2.4	2.3	2.4	44.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.5	4.4	4.8	4.8	4.8	4.8	4.8	4.8
= OR >5000	3.4	6.3	7.0	7.1	7.1	7.2	7.2	7.2
= OR >3500	4.8	8.4	9.2	9.5	9.5	9.5	9.5	9.5
= OR >2000	9.4	16.7	18.8	19.2	19.2	19.3	19.4	19.4
= OR >1000	15.1	26.2	30.7	31.9	32.1	32.2	32.2	32.2
= OR >600	16.9	30.9	37.3	38.9	39.4	39.8	40.0	40.0
= OR >300	17.0	32.3	39.4	41.4	42.2	42.8	43.0	43.0
= OR >150	17.0	32.5	39.7	41.8	42.8	44.8	45.5	45.5
= OR >0	17.0	32.6	41.8	45.2	47.3	51.6	54.9	55.4
TOTAL	207	397	508	590	575	628	667	674

TOTAL NUMBER OF OBS: 1216

PCT FREQ NM <5/8: 44.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
23.6	7.8	5.7	2.7	3.3	3.1	5.5	6.3	33.0	8.8	1277

PERIOD: (PRIMARY) 1958-1970
(OVER-ALL) 1887-1970

APRIL

AREA 0006 CAROT STRAIT
46.8N 58.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.2	.3	.5	.4	.3	.2	.2	.3	.0	.1	3.5	
	NO PCP	.7	.3	.4	2.0	1.8	1.0	.5	.1	.0	.1	6.9	
	TOT %	1.8	.7	.9	2.3	2.1	1.2	.7	.4	.0	.2	10.4	
1/2<1	PCP	.3	.1	.0	.1	.3	.1	.1	.2	.0	.0	1.1	
	NO PCP	.1	.3	.5	.4	.1	.2	.2	.2	.0	.1	1.9	
	TOT %	.4	.4	.5	.5	.4	.3	.3	.2	.0	.1	3.0	
1<2	PCP	.2	.3	.1	.2	.3	.1	.2	.3	.0	.0	1.8	
	NO PCP	.1	.1	.4	.4	.0	.2	.1	.2	.0	.0	1.5	
	TOT %	.4	.4	.5	.6	.3	.3	.4	.5	.0	.0	3.2	
2<5	PCP	1.0	.5	1.1	.6	.5	.9	.5	.7	.0	.1	5.4	
	NO PCP	.7	.6	.8	.4	.8	.7	1.0	.3	.0	.2	5.5	
	TOT %	1.6	1.1	2.0	1.0	1.3	1.6	1.5	1.0	.0	.3	10.9	
5<10	PCP	.1	.2	.5	.3	.4	.4	.4	.7	.0	.0	3.0	
	NO PCP	3.9	1.6	2.7	1.6	2.4	3.6	3.6	3.2	.0	.9	23.1	
	TOT %	3.6	1.8	3.2	1.9	2.8	4.0	4.0	3.8	.0	.9	26.1	
10+	PCP	.1	.3	.1	.1	.1	.0	.4	.3	.0	.1	1.4	
	NO PCP	8.1	3.5	3.1	2.0	3.2	4.7	8.7	10.6	.0	1.2	45.0	
	TOT %	8.1	3.9	3.1	2.1	3.3	4.7	9.1	10.9	.0	1.2	46.4	
TOT OBS		1447											
TOT PCT		16.0	8.2	10.1	8.4	10.2	11.6	15.9	16.8	.0	2.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.1	.2	.*	.1	.*	.0	.2	.7	
	4-10	.2	.1	.2	.8	.9	.4	.1	.*	.0	.2	2.7	
	11-21	.6	.3	.5	1.0	.7	.7	.3	.1	.0	.6	4.1	
	22+	1.0	.2	.2	.4	.3	.2	.2	.3	.0	.2	2.7	
	TOT %	1.8	.7	.9	2.4	2.1	1.2	.7	.4	.0	.2	10.3	
1/2<1	0-3	.0	.0	.0	.1	.2	.0	.1	.0	.0	.1	.4	
	4-10	.2	.2	.1	.*	.1	.1	.1	.0	.0	.8	1.8	
	11-21	.1	.2	.2	.2	.2	.*	.1	.0	.0	.1	1.0	
	22+	.2	.0	.1	.1	.0	.2	.*	.2	.0	.2	.9	
	TOT %	.4	.4	.5	.5	.5	.3	.3	.2	.0	.1	3.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.2	.1	.2	.1	.2	.0	.9	1.9	
	11-21	.1	.2	.1	.2	.1	.1	.1	.0	.0	.8	1.6	
	22+	.2	.2	.2	.3	.2	.*	.2	.3	.0	.2	1.6	
	TOT %	.4	.4	.5	.6	.3	.3	.4	.5	.0	.9	3.3	
2<5	0-3	.1	.1	.0	.0	.1	.0	.1	.0	.0	.3	.6	
	4-10	.1	.3	.4	.4	.5	.2	.2	.2	.0	.2	2.3	
	11-21	.9	.5	.6	.2	.5	.8	.6	.4	.0	.6	4.2	
	22+	.5	.3	1.0	.5	.3	.0	.6	.4	.0	.3	3.5	
	TOT %	1.6	1.1	1.9	1.0	1.3	1.0	1.5	1.0	.0	.3	10.7	
5<10	0-3	.2	.1	.1	.*	.3	.1	.1	.1	.0	.9	1.8	
	4-10	1.0	.8	.9	1.0	.5	1.1	1.3	.7	.0	.7	7.3	
	11-21	1.5	.4	1.3	.6	1.3	1.9	1.6	1.2	.0	.9	9.9	
	22+	.9	.4	.8	.3	.5	.8	1.0	1.8	.0	.6	6.7	
	TOT %	3.6	1.8	3.1	1.9	2.7	4.0	4.0	3.8	.0	.9	25.7	
10+	0-3	.5	.2	.3	.*	.4	.1	.2	.2	.0	1.3	3.1	
	4-10	3.1	1.7	1.4	.7	1.5	1.9	2.9	3.0	.0	.2	16.2	
	11-21	3.4	1.6	.7	1.2	1.2	2.1	3.8	4.9	.0	.2	18.9	
	22+	1.4	.4	.7	.2	.2	.7	2.5	2.9	.0	.2	8.9	
	TOT %	8.3	3.8	3.1	2.2	3.3	4.8	9.2	11.0	.0	1.3	47.0	
TOT OBS		1471											
TOT PCT		16.1	8.1	10.0	8.5	10.1	11.6	16.0	16.8	.0	2.8	100.0	

APRIL

PERIOD: (PRIMARY) 1958-1970
(OVER-ALL) 1887-1970AREA 0008 CABOT STRAIT
46.8N 58.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	9.8	2.4	3.3	7.3	13.9	9.8	2.9	.4	.8	2.0	52.7	47.3	245
06009	8.7	.0	.0	9.9	13.4	13.4	1.2	.6	1.7	4.1	52.9	47.1	172
12015	8.0	3.2	3.9	8.3	12.9	9.0	2.7	4.1	3.2	1.2	56.4	43.6	411
18021	12.2	2.7	3.7	6.2	11.7	9.0	2.2	2.5	2.5	3.2	56.1	43.9	401
TOT	121	30	39	94	157	120	29	29	28	30	677	552	1229
PCT	9.8	2.4	3.2	7.6	12.8	9.8	2.4	2.4	2.3	2.4	55.1	44.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	11.5	3.1	1.6	12.1	28.3	43.5	322
06009	6.5	2.6	1.7	8.2	20.3	60.8	232
12015	11.0	2.7	3.5	10.4	26.2	46.2	489
18021	17.3	3.5	5.0	11.2	26.0	44.0	457
TOT	153	45	49	160	385	708	1500
PCT	10.2	3.0	3.3	10.7	25.7	47.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	10.0	19.5	33.2	24.1	42.7	241
06009	8.8	10.6	25.9	29.4	44.7	170
12015	8.1	16.7	33.7	26.5	39.8	407
18021	12.6	20.4	34.7	25.6	39.7	398
TOT	122	214	399	318	499	1216
PCT	10.0	17.6	32.8	26.2	41.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.1	.1	.0	.0	2	.2
50/54	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
45/49	.0	.0	.0	.1	.1	.3	.3	.1	9	.9
40/44	.1	.1	.1	.4	1.1	1.2	2.4	1.6	70	6.9
35/39	.0	.1	.2	.2	1.9	5.8	14.1	20.2	433	42.4
30/34	.0	.1	.0	.3	1.0	5.4	12.1	21.4	411	40.3
25/29	.0	.0	.0	.1	.9	1.9	2.0	2.8	78	7.6
20/24	.0	.0	.0	.0	.1	.5	.6	.4	16	1.6
15/19	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	1	3	3	12	52	155	321	474	1021	100.0
PCT	.1	.3	.3	1.2	5.1	15.2	31.4	46.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.1	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
.0	.1	.1	.8	.3	.3	.0	.0	.0	.0
.8	.5	1.0	.7	1.5	1.1	.8	.4	.0	.2
4.9	4.8	4.4	4.3	5.2	5.8	6.0	5.7	.0	1.4
9.7	3.1	3.5	3.0	3.9	3.0	5.7	7.2	.0	1.2
2.2	.3	.2	.3	.2	.7	2.0	1.9	.0	.0
.1	.0	.0	.0	.0	.2	.3	1.0	.0	.0
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
17.7	8.8	9.1	8.3	11.2	11.2	14.8	16.1	.0	2.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	69	43	39	34	28	22	18	33.8	325
06009	70	48	39	34	28	22	20	34.3	235
12015	66	46	42	35	28	24	18	35.1	491
18021	70	48	44	36	28	23	21	36.2	460
TOT	70	47	42	35	28	23	18	35.0	1511

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.4	4.1	16.4	25.4	53.7	88	244		
06009	.0	1.2	1.9	12.3	30.2	54.3	89	162		
12015	.0	2.2	6.5	12.9	33.8	44.6	86	325		
18021	.3	2.6	6.4	18.3	34.4	37.9	84	311		
TOT	1	18	54	159	328	482	87	1042		

PERIOD: (PRIMARY) 1958-1970
(OVER-ALL) 1987-1970

APRIL

AREA 0006 CABOT STRAIT
46.8N 58.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	17 20	21 24	25 28	29 32	33 36	37 40	41 44	43 48	49 52	53 56	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.2	.0	.2	.0	4	.1	.3
11/13	.0	.0	.0	.0	.0	.0	.7	.4	.0	.0	11	.3	.8
8/10	.0	.0	.0	.0	.0	1.3	1.3	.3	.0	.0	29	.5	2.4
7/8	.0	.0	.0	.0	.1	3.5	.5	.0	.0	.0	43	.5	3.9
6	.0	.0	.0	.0	1.3	2.4	.5	.2	.0	.0	44	.6	3.8
5	.0	.0	.0	.0	2.0	4.0	.6	.0	.0	.0	67	.9	5.7
4	.0	.0	.0	.0	3.4	3.5	.6	.0	.0	.0	75	.9	6.5
3	.0	.0	.0	.6	4.6	3.3	.4	.0	.0	.0	90	1.7	7.2
2	.0	.0	.0	1.0	8.4	3.8	.2	.0	.0	.0	139	2.3	11.1
1	.0	.0	.0	1.8	10.6	2.1	.1	.0	.0	.0	147	2.5	12.0
0	.0	.0	.0	3.1	7.7	1.2	.1	.1	.0	.0	123	.8	11.4
-1	.0	.0	.2	3.3	3.9	.0	.1	.0	.0	.0	76	1.2	6.3
-2	.0	.0	.5	2.3	1.6	.1	.0	.0	.0	.0	45	.5	3.9
-3	.0	.0	.7	1.9	.6	.1	.0	.0	.0	.0	33	.4	2.9
-4	.0	.0	.8	1.3	.4	.1	.0	.0	.0	.0	26	.1	2.5
-5	.0	.2	.7	1.0	.2	.1	.0	.0	.0	.0	22	.1	2.1
-6	.0	.0	.5	.1	.1	.1	.0	.0	.0	.0	8	.2	.6
-7/-8	.0	.4	.5	.2	.0	.1	.0	.0	.0	.0	12	.1	1.1
-9/-10	.1	.6	.2	.0	.1	.0	.0	.0	.0	.0	10	.0	1.0
-11/-13	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	.7
-14/-16	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	3	.0	.3
TOTAL	4	16	42	166	456	258	58	10	2	1	1013	137	876
PCT	.4	1.6	4.1	16.6	45.0	25.4	5.6	1.0	.2	.1	100.0	13.5	86.5

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	1.9	.7	.0	.0	.0	3.2	.0	.9	.0	.0	.0	.0	.9
1-2	.8	1.9	1.6	.0	.0	.0	4.2	.3	1.7	.8	.0	.0	.0	2.8
3-4	.0	.8	2.5	.8	.0	.0	4.1	.0	1.2	1.7	.1	.0	.0	2.9
5-6	.0	.8	1.9	.7	.3	.0	3.6	.0	.3	.3	.0	.3	.0	.9
7	.0	.0	.7	.3	.0	.0	1.0	.0	.0	1.1	.3	.0	.0	1.4
8-9	.0	.0	.7	.0	.0	.0	.7	.0	.0	.1	1.3	.0	.0	1.4
10-11	.0	.0	.0	.2	.3	.0	.5	.0	.0	.0	1.0	.0	.0	1.0
12	.0	.0	.3	.0	.2	.0	.5	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	5.4	8.3	2.0	1.7	.0	18.7	.3	4.1	3.9	3.2	.3	.0	11.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.3	.0	.0	.0	.0	1.3	.1	1.1	.8	.0	.0	.0	1.9
1-2	.0	.5	.4	.0	.0	.0	.8	.1	1.4	1.4	.0	.0	.0	2.8
3-4	.0	.6	1.2	.0	.0	.0	1.8	.0	.1	1.4	.3	.0	.0	1.8
5-6	.0	.2	1.0	.0	.2	.0	1.4	.0	.3	.3	.0	.0	.0	.6
7	.0	.0	.0	.3	.3	.0	.5	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.8	.3	.0	1.0	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.8	.0	1.2	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	2.8	1.5	2.0	.0	8.9	.1	2.8	4.1	1.1	.0	.0	8.2

PERIOD: (OVER-ALL) 1963-1970

APRIL

AREA 0006 CABOT STRAIT
46.8N 58.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.5	1.2	.0	.0	.0	.0		1.7	.0	1.5	1.1	.0	.0	.0		2.6
1-2	.6	1.4	.7	.0	.0	.0		2.8	.1	2.5	1.4	.0	.0	.0		4.0
3-4	.0	1.2	1.8	.2	.0	.0		3.2	.0	.6	1.9	.6	.0	.0		3.1
5-6	.0	.3	1.4	.0	.0	.0		1.6	.0	.3	1.8	.0	.0	.0		2.1
7	.0	.0	.0	.5	.0	.0		.5	.0	.0	.0	.3	.0	.0		.3
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.3	.0	.0		.3
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.1	.0		.1
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.1	4.1	3.9	.7	.2	.0		9.9	.1	4.8	6.3	1.1	.1	.0		12.4

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	2.3	.9	.0	.0	.0		3.2	.3	1.9	.1	.0	.0	.0		2.3
1-2	.2	2.3	.8	.0	.0	.0		3.4	.3	1.5	1.9	.0	.0	.0		3.7
3-4	.0	.8	2.1	.0	.0	.0		2.8	.0	.8	2.1	.9	.0	.0		3.8
5-6	.0	.0	1.4	.5	.0	.0		1.9	.0	.0	.3	.3	.0	.0		.6
7	.0	.0	.0	.7	.3	.0		1.0	.0	.0	.0	.6	.0	.0		.6
8-9	.0	.0	.2	.6	.5	.0		1.3	.0	.0	.3	.1	.0	.0		.5
10-11	.0	.0	.0	.0	.3	.0		.3	.0	.0	.0	.1	.0	.0		.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.3	.0		.6
13-16	.0	.0	.0	.5	.0	.0		.5	.0	.0	.0	.3	.8	.0		1.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.3		.3
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	5.4	5.4	2.4	1.0	.0		14.3	.6	4.2	4.8	2.5	1.1	.3		97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.1	12.3	3.6	.0	.0	.0	19.9	
1-2	2.3	13.0	9.0	.0	.0	.0	24.3	
3-4	.3	5.9	14.6	2.8	.0	.0	23.5	
5-6	.0	2.0	8.2	1.5	.8	.0	12.5	
7	.0	.0	2.0	2.8	.5	.0	5.4	
8-9	.0	.0	1.5	2.3	.5	.0	4.3	
10-11	.0	.0	.0	2.6	.8	.0	3.3	
12	.0	.0	.3	.8	1.0	.0	2.0	
13-16	.0	.0	.0	1.5	1.8	.0	3.3	
17-19	.0	.0	.0	.0	.8	.0	.8	
20-22	.0	.0	.0	.0	.3	.3	.5	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.6	33.2	39.1	14.3	6.4	.3	100.0	391

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.5	12.3	15.6	5.6	1.7	.9	.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	297	3
6-7	.0	1.1	2.7	7.3	5.0	3.1	2.2	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	143	6
8-9	.2	1.3	1.6	1.4	1.1	2.0	1.7	.9	1.4	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	79	8
10-11	.0	.8	.9	.6	.6	.0	.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	6
12-13	.0	.0	.0	.3	.2	.6	.0	.3	.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	13	11
>13	.0	.0	.0	.2	.0	.2	.0	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	5	11
INDET	5.9	2.7	3.1	1.9	1.4	.8	.3	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	3
TOTAL	68	116	153	111	64	49	32	19	21	4	2	0	1	0	0	0	0	0	0	640	5
PCT	10.6	18.1	23.9	17.3	10.0	7.7	5.0	3.0	3.3	.6	.3	.0	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1971
(OVER-ALL) 1864-1971

MAY

AREA 0006 CABOT STRAIT
46.7N 58.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.2	.8	3.5	.0	2.3	.0	.0	10.9	.9	.0	13.5	1.3	.5	.0	73.0
NE	11.6	1.9	7.7	.0	.4	.0	.0	20.4	.3	.0	15.5	.6	.6	.6	62.0
E	13.6	1.6	8.1	.0	1.0	.0	.2	23.2	2.3	.3	25.7	.8	.7	.0	47.3
SE	14.6	3.1	7.9	.0	.9	.0	.1	25.1	1.5	.8	27.4	1.3	1.9	.0	42.4
S	10.4	1.8	4.5	.0	.7	.0	.4	17.3	2.3	.7	29.9	.4	1.6	.0	48.1
SW	4.8	1.9	2.2	.0	1.0	.0	.0	10.0	.4	.3	19.9	.0	1.5	.3	67.9
W	1.9	.7	1.5	.0	1.1	.0	.0	5.2	1.3	.1	11.2	.3	1.1	.0	80.9
NW	.9	.4	.5	.0	1.8	.0	.0	3.3	.6	.2	10.4	1.0	.9	.0	84.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1	.0	.0	.0	1.1	.0	.0	2.1	2.1	.0	24.5	2.1	.0	.0	69.1
TOT PCT	7.1	1.4	3.9	.0	1.2	.0	.1	13.1	1.3	.3	19.2	.7	1.0	.1	64.4
TOT OBS:	2305														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00203	5.6	.5	4.4	.0	1.8	.0	.3	12.3	1.5	.3	20.6	.7	.5	.0	64.3
06209	8.7	1.4	4.5	.0	.4	.0	.0	14.5	.8	.4	17.8	.6	.8	.2	64.9
12215	7.7	1.8	4.4	.0	1.3	.0	.0	14.1	.9	.3	20.3	.9	1.6	.1	62.1
18221	6.3	1.6	2.3	.0	.7	.0	.0	10.9	1.8	.2	19.1	.9	.7	.0	66.6
TOT PCT	7.0	1.4	4.0	.0	1.1	.0	.1	13.0	1.2	.3	19.6	.8	1.0	.1	64.2
TOT OBS:	2443														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	3.9	3.0	1.1	.1	.0		9.2	12.3	9.5	12.9	8.0	6.4	10.9	7.3	8.6	9.2	
NE	.9	3.4	2.2	.7	.0	.0		7.3	10.9	6.5	8.8	8.9	8.0	7.1	6.2	7.3	6.5	
E	1.3	4.9	4.5	1.9	.3	.1		13.0	13.4	10.3	11.1	10.8	13.4	12.7	20.8	12.9	12.1	
SE	1.0	5.2	4.1	1.1	*	.0		11.3	11.6	12.3	10.4	10.5	11.7	12.3	11.4	9.7	11.5	
S	.8	4.8	4.7	1.2	.1	.0		11.7	12.3	11.2	13.9	9.8	14.4	12.0	9.1	13.9	10.7	
SW	1.1	5.5	4.9	1.3	.1	.1		12.9	12.6	13.6	12.4	12.7	16.3	13.4	7.9	14.0	14.1	
W	.9	5.4	6.8	2.6	.3	.0		15.9	14.0	16.3	13.8	16.2	10.9	15.1	17.4	16.6	19.4	
NW	1.1	6.0	5.2	2.2	.2	*		14.7	13.3	15.5	13.4	16.0	14.5	12.7	16.9	13.7	15.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.0							4.0	.0	4.7	3.4	7.1	4.4	3.8	3.0	3.2	1.0	
TOT OBS	320	1045	945	323	30	5	2668		12.2	510	176	337	181	531	337	404	192	
TOT PCT	12.0	39.2	35.4	12.1	1.1	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	2.5	4.1	2.0	.6	.0			9.2	12.3	10.4	7.4	9.5	8.8	
NE	2.3	3.3	1.4	.3	.0			7.3	10.9	7.1	8.6	6.7	7.0	
E	2.9	6.2	2.6	1.1	.1			13.0	13.4	10.5	11.7	15.8	12.7	
SE	3.2	5.5	2.4	.3	.0			11.3	11.6	11.8	11.0	12.0	10.3	
S	2.6	6.2	2.5	.4	.0			11.7	12.3	11.9	11.4	10.9	12.9	
SW	3.4	5.9	3.1	.5	.1			12.9	12.6	13.3	13.9	11.3	14.1	
W	3.1	7.7	3.9	1.2	.0			15.9	14.0	15.7	14.3	16.0	17.5	
NW	3.4	6.9	3.3	1.0	.1			14.7	13.3	15.0	15.5	14.3	14.3	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	4.0							4.0	.0	4.4	6.2	3.5	2.5	
TOT OBS	732	1224	561	145	6	2668			12.2	686	518	868	596	
TOT PCT	27.4	45.9	21.0	5.4	.2			100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1924-1971
(OVER-ALL) 1864-1971

MAY

AREA 0006 CABOT STRAIT
46.7N 58.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL	MEAN	CLOUD COVER
N	2.7	1.3	1.8	3.8	9.6	1.3	.1
NE	.8	.7	1.7	4.1	7.3	.7	.3
E	1.3	.5	1.8	9.4	13.0	2.7	.2
SE	.9	.2	2.0	6.9	10.0	2.4	.3
S	1.8	.7	2.2	6.2	10.9	3.0	.3
SW	3.8	1.1	3.0	4.9	12.8	1.8	.0
W	6.7	2.2	3.8	4.1	16.8	.8	.1
NW	6.6	1.8	3.2	3.5	15.1	.6	.0
VAR	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	.5	.6	1.7	4.5	.4	.0
TOT OBS	412	140	314	696	1562	213	16
TOT PCT	26.4	9.0	20.1	44.6	100.0	13.6	1.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL	MEAN	CLOUD COVER
N	2.7	1.3	1.8	3.8	9.6	1.3	.1
NE	.8	.7	1.7	4.1	7.3	.7	.3
E	1.3	.5	1.8	9.4	13.0	2.7	.2
SE	.9	.2	2.0	6.9	10.0	2.4	.3
S	1.8	.7	2.2	6.2	10.9	3.0	.3
SW	3.8	1.1	3.0	4.9	12.8	1.8	.0
W	6.7	2.2	3.8	4.1	16.8	.8	.1
NW	6.6	1.8	3.2	3.5	15.1	.6	.0
VAR	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	.5	.6	1.7	4.5	.4	.0
TOT OBS	412	140	314	696	1562	213	16
TOT PCT	26.4	9.0	20.1	44.6	100.0	13.6	1.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
1.3	.1	.3	.7	.9	.9	.1	.1	.2	.3	4.7	
.7	.3	.4	.8	1.1	1.2	.4	.1	.4	.1	2.2	
2.7	.2	.4	1.9	1.7	1.5	.7	.7	.3	.2	2.9	
2.4	.3	.2	.8	1.3	1.3	.2	.4	.4	.2	2.6	
3.0	.3	.2	.5	1.0	.8	.2	.2	.5	.3	3.9	
1.8	.0	.1	.8	1.2	.7	.4	.3	.4	.3	6.8	
.8	.1	1.1	1.6	1.1	.4	.5	.6	.5	.9	9.9	
.6	.0	.2	.5	1.2	1.2	.3	.5	.5	.2	9.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.4	.0	.0	.3	.4	.3	.0	.1	.2	.1	2.8	
213	16	32	114	162	137	43	44	55	34	712	1562
13.6	1.0	2.0	7.3	10.4	8.8	2.8	2.8	3.5	2.2	45.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM)	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	4.2	5.7	6.1	6.1	6.1	6.1	6.1	6.1	6.1
= OR >5000	5.4	8.0	8.8	8.9	8.9	8.9	8.9	8.9	8.9
= OR >3500	7.0	10.3	11.3	11.6	11.6	11.6	11.6	11.6	11.6
= OR >2000	11.6	17.7	19.8	20.2	20.2	20.4	20.4	20.4	20.4
= OR >1000	16.3	26.1	29.7	30.3	30.3	30.6	30.7	30.7	30.7
= OR >600	18.4	31.2	36.3	37.9	38.2	38.4	38.5	38.5	38.5
= OR >300	18.6	31.8	37.4	39.3	39.8	40.1	40.2	40.4	40.4
= OR >150	18.6	32.0	37.9	39.9	40.4	40.9	41.2	41.4	41.4
= OR >0	18.7	32.4	39.1	42.8	43.5	48.5	53.6	54.7	54.7
TOTAL	305	530	640	699	744	793	876	895	

TOTAL NUMBER OF OBS: 1635

PCT FREQ NH <5/8: 45.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
18.9	10.1	6.6	5.3	3.7	3.8	5.7	6.8	27.6	11.5	1734

PERIOD: (PRIMARY) 1924-1971
(OVER-ALL) 1864-1971

MAY

AREA 0006 CABOT STRAIT
46.7N 58.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	.1	.3	.9	.7	.7	.1	*	.0	.0	2.4	
	NO PCP	.7	.7	1.7	2.1	2.5	1.5	.9	.7	.0	.6	11.5	
	TOT %	.9	.8	2.0	2.9	3.2	1.7	1.0	.7	.0	.6	13.9	
1/2<1	PCP	.7	.1	.2	.3	.3	.2	.0	*	.0	.0	1.4	
	NO PCP	.3	.2	.7	.3	.4	.5	.5	.2	.0	.2	3.3	
	TOT %	.5	.3	.9	.7	.7	.7	.5	.3	.0	.2	4.8	
1<2	PCP	*	.2	.7	.2	.2	.1	.2	*	.0	.0	1.6	
	NO PCP	.1	.1	.6	.4	.3	.1	.2	.1	.0	*	2.1	
	TOT %	.2	.3	1.3	.6	.5	.2	.4	.2	.0	*	3.7	
2<5	PCP	.9	.9	.6	.4	.3	.2	.2	.2	.0	*	2.7	
	NO PCP	.1	.2	.8	.6	.5	.7	.5	.5	.0	.1	4.0	
	TOT %	.5	.5	1.4	.9	.9	.9	.7	.7	.0	.1	6.6	
5<10	PCP	.2	.5	1.0	.9	.5	.4	.4	.2	.0	*	4.2	
	NO PCP	1.8	1.6	2.8	2.6	2.6	3.4	4.0	3.1	.0	.5	22.3	
	TOT %	2.0	2.1	3.8	3.5	3.1	3.8	4.4	3.3	.0	.6	26.5	
10+	PCP	*	.7	.2	.2	.1	.1	.1	.0	.0	.0	1.0	
	NO PCP	5.4	3.2	3.5	2.5	3.2	5.0	9.3	8.7	.0	2.6	43.5	
	TOT %	5.4	3.4	3.7	2.8	3.3	5.2	9.4	8.7	.0	2.6	44.5	
TOT OBS													2303
TOT PCT		9.9	7.5	13.1	11.4	11.6	12.4	16.4	13.9	.0	4.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.3	.3	.3	.3	.1	.1	.2	.0	.5	2.1	
	4-10	.6	.4	1.1	1.4	.7	.7	.6	.5	.0		5.9	
	11-21	.2	.2	.6	.9	1.4	.7	.3	.1	.0		4.4	
	22+	.0	*	.1	.3	.6	.2	*	.0	.0		1.1	
	TOT %	.9	.8	2.0	2.8	3.0	1.6	1.0	.8	.0	.5	13.6	
1/2<1	0-3	.1	.1	.1	.1	.1	.0	.1	*	.0	.2	.7	
	4-10	.1	.1	.2	.2	.2	.4	.1	.1	.0		1.4	
	11-21	.3	.1	.3	.2	.3	.3	.2	.1	.0		1.8	
	22+	*	*	.3	.1	.1	.1	.1	.0	.0		.8	
	TOT %	.5	.3	.8	.6	.6	.7	.5	.3	.0	.2	4.6	
1<2	0-3	*	.0	*	.1	*	.0	.0	.0	.0	*	.2	
	4-10	.1	.1	.2	.2	.2	.1	.1	*	.0		1.0	
	11-21	*	.1	.6	.2	.2	.1	.3	.1	.0		1.6	
	22+	*	.1	.5	.2	.1	.1	*	*	.0		1.0	
	TOT %	.2	.3	1.3	.6	.5	.3	.4	.2	.0	*	3.9	
2<5	0-3	*	*	*	.1	*	.1	*	.1	.0	.1	.5	
	4-10	.2	.2	.5	.4	.3	.2	.1	*	.0		2.0	
	11-21	.1	.3	.4	.5	.4	.5	.2	.3	.0		2.7	
	22+	.2	*	.5	.1	.2	.1	.3	.3	.0		1.5	
	TOT %	.4	.5	1.4	1.1	1.0	.9	.6	.7	.0	.1	6.8	
5<10	0-3	.2	.2	.2	.2	.1	.1	.2	.2	.0	.5	1.9	
	4-10	.5	.8	1.2	1.7	1.2	1.3	1.2	1.2	.0		9.3	
	11-21	.9	.7	1.4	1.2	1.3	1.6	2.1	1.2	.0		10.6	
	22+	.3	.3	.8	.3	.3	.5	.9	.7	.0		4.1	
	TOT %	2.0	2.0	3.7	3.4	2.9	3.5	4.5	3.3	.0	.5	25.9	
10+	0-3	.4	.3	.5	.3	.3	.8	.3	.5	.0	2.8	6.2	
	4-10	2.3	1.9	1.8	1.3	1.9	2.5	3.4	3.8	.0		18.8	
	11-21	1.7	.9	1.4	1.1	1.1	1.8	3.9	3.3	.0		15.1	
	22+	.7	.2	.2	.1	.2	.6	1.0	1.5	.0		5.2	
	TOT %	5.2	3.3	3.9	2.7	3.4	5.7	9.3	9.1	.0	2.8	45.3	
TOT OBS													2483
TOT PCT		9.2	7.3	13.2	11.3	11.4	12.8	16.3	14.3	.0	4.1	100.0	

MAY

PERIOD: (PRIMARY) 1924-1971
(OVER-ALL) 1864-1971AREA 0006 CABOT STRAIT
46.7N 58.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	12.1	1.0	1.8	8.7	11.1	9.0	2.8	1.8	3.6	3.3	55.3	44.7	389
06009	12.2	.3	3.0	7.3	10.0	7.6	1.8	1.5	1.8	2.1	47.7	52.3	329
12015	15.8	.8	1.3	6.0	8.4	7.1	4.3	5.4	6.2	1.5	56.8	43.2	533
18021	12.1	1.7	1.9	8.7	11.3	10.9	1.2	1.2	2.8	1.7	53.4	46.6	423
TOT	222	16	32	127	169	144	45	46	65	35	901	773	1674
PCT	13.3	1.0	1.9	7.6	10.1	8.8	2.7	2.7	3.9	2.1	53.8	46.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	15.9	5.4	3.3	5.9	27.4	42.1	865
06009	12.8	4.7	2.7	5.4	22.9	51.6	316
12015	13.4	5.3	4.6	7.0	25.8	43.9	852
18021	13.7	3.5	3.9	8.1	26.0	44.9	593
TOT	367	126	98	175	674	1186	2626
PCT	14.0	4.8	3.7	6.7	25.7	45.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	13.2	17.2	30.1	28.5	41.4	379
06009	12.7	17.1	27.8	22.8	49.4	316
12015	15.7	18.5	32.3	27.2	40.5	523
18021	12.0	16.5	30.9	25.2	43.9	417
TOT	222	285	500	427	708	1635
PCT	13.6	17.4	30.6	26.1	43.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
60/64	.0	.0	.2	.2	.0	.1	.0	.0	7	.5
55/59	.0	.3	.5	.4	.2	.1	.1	.0	23	1.5
50/54	.0	.1	.5	.7	.6	.2	.5	.2	42	2.7
45/49	.0	.0	.1	.7	1.2	2.5	2.6	2.7	149	9.7
40/44	.0	.1	.3	.3	2.0	4.8	10.7	17.7	549	35.9
35/39	.0	.0	.0	.3	1.5	3.3	10.8	26.7	633	42.7
30/34	.0	.0	.0	.0	.1	.7	1.2	4.7	104	6.8
25/29	.0	.0	.0	.0	.0	.0	.1	.2	2	.1
TOTAL	0	7	25	40	85	178	397	798	1530	100.0
PCT	.0	.5	1.6	2.6	5.6	11.6	25.9	52.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.2	.2	.0	.0	.0
.1	.0	.1	.1	.4	.4	.3	.0	.0	.1
.4	.3	.1	.2	.3	.2	.8	.5	.0	.1
1.0	.7	1.0	1.1	1.0	2.2	1.7	.8	.0	.3
3.0	2.7	4.7	3.9	4.8	5.2	5.4	4.2	.0	1.9
4.7	3.5	5.5	4.6	4.4	5.0	7.5	5.6	.0	1.9
.9	.3	.8	.8	.7	.7	1.4	1.1	.0	.2
.0	.0	.0	.0	.1	.0	.1	.0	.0	.0
10.2	7.6	12.1	10.7	11.7	13.8	17.2	12.3	.0	4.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	64	52	47	39	33	31	29	39.5	718
06009	67	49	45	38	33	31	27	38.6	552
12015	69	54	49	40	34	32	29	41.0	903
18021	67	60	53	41	35	33	30	42.2	624
TOT	67	56	49	40	34	31	27	40.4	2797

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.4	5.0	9.5	29.1	54.1	88		88	423
06009	.0	2.3	3.8	9.9	25.7	58.2	88		88	342
12015	.0	2.6	6.0	13.6	23.3	53.6	87		87	430
18021	.0	9.3	7.1	16.1	23.6	42.0	83		83	410
TOT	0	72	90	201	421	841	86		86	1625

PERIOD: (PRIMARY) 1924-1971
(OVER-ALL) 1864-1971

MAY

AREA 0006 CAROT STRAIT
46.7N 58.2W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WD FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.1	.0
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.1	.4	.1	.1	12	.0	.6
14/16	.0	.0	.0	.0	.0	.5	.4	.3	.0	.1	24	.1	1.2
11/13	.0	.0	.0	.1	.7	1.0	.6	.2	.0	.0	49	.4	2.1
9/10	.0	.0	.1	.5	1.0	.9	.2	.0	.0	.0	93	.6	2.1
7/8	.0	.0	.6	1.7	2.1	.7	.0	.1	.0	.0	103	.7	4.6
6	.0	.1	1.1	2.4	1.2	.3	.0	.0	.0	.0	96	.8	4.1
5	.0	.2	1.9	3.3	1.4	.1	.0	.0	.0	.0	136	1.7	5.2
4	.0	.4	3.8	4.3	1.1	.2	.0	.0	.0	.0	189	2.2	7.4
3	.0	1.0	6.2	3.8	1.0	.1	.1	.0	.0	.0	236	2.8	9.3
2	.0	2.4	8.2	5.0	.5	.0	.0	.0	.1	.0	316	3.3	12.9
1	.0	2.5	7.8	2.9	.4	.2	.0	.0	.1	.0	268	2.5	11.2
0	.2	2.6	5.1	1.5	.2	.1	.0	.0	.0	.0	187	1.9	7.6
-1	.2	2.2	3.2	.6	.1	.0	.0	.0	.0	.0	121	1.3	4.9
-2	.3	1.9	1.4	.3	.0	.0	.0	.0	.0	.0	76	1.1	2.8
-3	.1	.9	.6	.1	.1	.1	.0	.0	.0	.0	35	.3	1.5
-4	.4	.4	.2	.1	.1	.0	.0	.0	.0	.0	21	.2	.9
-5	.7	.4	.2	.1	.0	.0	.0	.0	.0	.0	16	.1	.7
-6	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	5	.1	.2
-7/-8	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	5	.0	.3
-9/-10	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	3	.0	.2
-11/-13	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.1	.0
TOTAL	27	295	791	520	191	78	26	21	5	3	1957	392	1565
PCT	1.4	15.1	40.4	26.6	9.8	4.0	1.3	1.1	.3	.2	100.0	20.0	80.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	1.1	.2	.0	.0	.0	1.5	.1	1.1	.0	.0	.0	.0	1.1
1-2	.0	1.7	1.0	.0	.0	.0	2.7	.0	1.5	.0	.0	.0	.0	1.5
3-4	.0	1.2	.5	.0	.0	.0	1.8	.0	.4	.1	.4	.0	.0	.9
5-6	.0	.0	.6	.2	.2	.0	1.0	.0	.5	.7	.5	.0	.0	1.7
7	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.2	.4	.0	.0	.6	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.0	2.6	1.4	.2	.0	8.4	.1	3.4	.8	1.1	.0	.0	5.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	1.0	.2	.0	.0	.0	1.6	.1	1.6	.2	.0	.0	.0	1.9
1-2	.2	2.0	1.2	.0	.0	.0	3.4	.0	2.4	.9	.0	.0	.0	3.3
3-4	.0	1.4	2.7	.2	.0	.0	3.8	.0	1.0	1.1	.0	.0	.0	2.1
5-6	.0	.3	1.1	.9	.2	.0	2.6	.0	.1	.3	.2	.0	.0	.5
7	.0	.0	.6	.2	.0	.0	.8	.0	.0	.5	.2	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.2	.2	.0	.2	.0	.6	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.7	.2	.0	.9	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.0	5.5	2.0	.9	.0	13.9	.1	5.0	3.0	.4	.0	.0	8.5

PERIOD: (OVER-ALL) 1963-1971

MAY

TABLE 18 (CONT)

AREA 0006 CABOT STRAIT
46.7N 58.2W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.5	.6	.2	.0	.0	.0		1.4	.3	1.6	.0	.0	.0	.0		1.9
1-2	.2	3.3	1.5	.0	.0	.0		5.0	.3	2.0	1.0	.0	.0	.0		3.3
3-4	.0	.8	2.1	.4	.0	.0		3.3	.0	1.3	.9	.4	.0	.0		2.6
5-6	.0	.2	.9	.3	.0	.0		1.4	.0	.1	1.0	.9	.0	.0		2.0
7	.0	.0	.0	.3	.0	.0		.3	.0	.0	.7	.5	.0	.0		1.3
8-9	.0	.0	.2	.4	.0	.0		.6	.0	.0	.3	.2	.0	.0		.5
10-11	.0	.0	.0	.2	.2	.0		.4	.0	.0	.0	.1	.0	.0		.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.7	4.9	4.9	1.7	.2	.0		12.4	.5	5.0	3.9	2.2	.0	.0		11.6

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.8	.0	.0	.0	.0		.8	.4	1.8	.4	.0	.0	.0		2.7	
1-2	.2	3.4	.8	.0	.0	.0		4.4	.7	3.8	2.1	.0	.0	.0		6.6	
3-4	.2	2.2	2.2	1.0	.0	.0		5.5	.1	1.0	4.1	.8	.0	.0		5.9	
5-6	.0	.2	1.9	.0	.0	.0		2.0	.0	.3	.8	.9	.0	.0		2.0	
7	.0	.0	.6	.7	.0	.0		1.3	.0	.0	.2	.0	.0	.0		.2	
8-9	.0	.0	.6	.2	.0	.0		.8	.0	.0	.1	.7	.0	.0		.8	
10-11	.0	.0	.0	1.5	.4	.0		1.9	.0	.0	.0	.0	.2	.0		.2	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.4	6.6	6.0	3.3	.7	.0		16.9	1.1	6.9	7.8	2.4	.2	.0		18.4	95.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	7.7	9.8	1.3	.0	.0	.0	18.8	
1-2	1.9	19.7	8.3	.0	.0	.0	29.9	
3-4	.2	9.2	12.8	1.2	.0	.0	23.4	
5-6	.0	1.5	7.1	3.8	.4	.0	12.8	
7	.0	.0	2.6	2.4	.0	.0	4.9	
8-9	.0	.0	1.3	1.9	.0	.0	3.2	
10-11	.0	.0	.0	1.9	.9	.0	2.8	
12	.0	.2	.2	.2	.2	.0	.9	
13-16	.0	.0	.0	.6	.4	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.8	40.4	33.5	14.1	2.1	.0	100.0	468

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.0	12.1	14.3	7.1	2.6	1.0	.9	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	357	3
6-7	.0	1.1	5.5	7.2	3.4	2.4	1.8	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	185	6
8-9	.0	1.1	2.2	2.9	2.6	1.3	1.2	.9	1.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	110	7
10-11	.0	.5	.5	.6	.4	.7	.1	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	29	7
12-13	.0	.0	.1	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
>13	.0	.0	.0	.0	.2	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
INDET	4.8	4.4	3.9	1.1	.4	.5	.4	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	3
TOTAL	80	177	219	156	79	49	36	18	19	3	3	0	0	0	0	0	0	0	0	819	4
PCT	9.8	19.2	26.7	19.0	9.6	6.0	4.4	2.2	2.3	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1926-1971
(OVER-ALL) 1864-1971

JUNE

AREA 0006 CABOT STRAIT
46.7N 58.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WEA
N	4.9	.4	4.1	.0	.0	.0	.0	9.5	.0	.4	11.3	.0	1.0	.0	77.7
NE	16.5	1.3	2.2	.0	.0	.0	.0	20.0	2.6	.0	18.9	.0	.0	.0	58.4
E	23.1	1.9	8.9	.0	.0	.0	.0	33.5	1.4	.0	23.9	.4	.4	.0	40.4
SE	10.0	.6	3.1	.0	.0	.0	.0	13.1	.5	.0	39.6	1.9	2.6	.0	42.4
S	7.5	.8	2.2	.0	.0	.0	.0	10.2	1.6	.2	29.2	2.5	4.0	.0	52.5
SW	4.3	1.3	1.3	.0	.0	.0	.0	6.7	.4	.2	25.6	.4	2.2	.0	64.5
W	1.8	.4	1.7	.0	.0	.0	.0	3.8	.8	.4	11.4	1.2	2.6	.0	79.8
NW	1.3	1.0	1.8	.0	.0	.0	.0	4.0	1.4	.2	10.5	1.0	2.3	.0	80.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0	1.3	1.3	.0	.0	.0	.0	6.7	.0	.0	21.3	.0	4.0	.0	68.0
TOT PCT	7.8	1.0	2.9	.0	.0	.0	.0	11.5	1.0	.2	22.1	1.0	2.2	.0	61.9
TOT OBS:	1737														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST	NO SIG WEA
00003	7.4	.8	3.4	.0	.0	.0	.0	11.4	1.1	.6	20.5	.6	1.7	.0	64.3
06009	9.4	1.7	3.1	.0	.0	.0	.0	14.2	2.0	.0	21.7	.9	1.4	.0	59.8
12015	7.1	1.4	2.7	.0	.0	.0	.0	10.8	1.0	.0	26.4	.8	1.7	.0	59.2
18021	8.3	.3	2.5	.0	.0	.0	.0	10.9	.3	.0	17.9	2.0	4.3	.0	64.6
TOT PCT	7.9	1.0	2.9	.0	.0	.0	.0	11.6	1.0	.2	22.1	1.0	2.2	.0	61.9
TOT OBS:	1812														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	3.1	2.4	.5	.1	.0		6.8	11.1		6.3	7.3	7.9	5.3	8.4	5.7	6.6	5.0
NE	.6	3.1	2.0	.4	.1	.0		6.2	10.9		5.4	3.3	10.4	6.8	6.9	5.5	5.9	3.0
E	.8	4.5	4.9	.9	.2	.0		11.4	12.4		10.1	8.8	11.3	9.5	11.6	18.0	10.8	8.4
SE	.6	5.1	4.6	.5	.1	.0		10.9	11.3		9.3	7.3	7.7	11.9	10.6	15.6	11.1	16.6
S	1.8	7.1	6.1	1.5	.1	.0		16.6	11.4		18.6	18.4	15.4	12.9	16.0	11.9	20.9	15.7
SW	1.0	7.5	5.8	1.8	.1	.0		16.2	12.0		17.3	19.5	13.3	18.8	18.8	12.4	14.1	16.0
W	.8	6.8	6.1	1.1	.1	.0		14.9	11.9		16.3	12.8	16.7	15.5	11.7	15.2	14.9	17.5
NW	.6	5.4	4.3	1.7	.3	.0		12.2	11.2		12.8	19.0	10.9	14.0	9.2	12.7	11.1	15.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8							4.8	.0		3.9	3.5	6.4	5.3	6.8	3.1	4.7	2.2
TOT OBS	228	831	703	161	19	0	1942		11.3		409	113	250	132	397	229	278	134
TOT PCT	11.7	42.8	36.2	8.3	1.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00	06	12	18
									03	09	15	21
N	1.9	3.6	1.0	.2	.0		6.8	11.1	6.5	7.0	7.4	6.1
NE	2.2	2.6	1.1	.3	.0		6.2	10.9	4.9	9.2	6.3	5.0
E	2.5	6.1	2.2	.5	.0		11.4	12.4	9.9	10.7	13.9	10.0
SE	2.4	6.5	1.9	.2	.0		10.9	11.3	8.9	9.2	12.5	12.9
S	4.4	8.7	3.1	.4	.0		16.6	11.4	18.5	14.5	14.5	19.2
SW	3.6	9.0	3.2	.4	.0		16.2	12.0	17.8	13.2	16.5	14.7
W	3.7	7.6	3.3	.3	.0		14.9	11.9	15.6	16.3	13.0	15.8
NW	2.7	5.9	2.5	1.0	.0		12.2	13.2	14.1	12.0	10.5	12.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.8						4.8	.0	3.8	6.0	5.4	3.9
TOT OBS	551	972	355	64	0	1942		11.3	522	382	626	412
TOT PCT	28.4	50.1	18.3	3.3	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1926-1971
(OVER-ALL) 1864-1971

JUNE

AREA 0006 CAROT STRAIT
46.7N 58.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
00003	3.8	6.9	46.7	33.1	8.6	.8	.0	11.0	100.0	522	
06009	6.0	7.6	41.4	37.2	7.6	.3	.0	10.8	100.0	382	
12015	5.4	7.7	44.1	34.2	7.3	1.3	.0	11.1	100.0	626	
18021	3.9	5.3	37.1	42.2	10.0	1.5	.0	12.4	100.0	412	
TOT	93	135	831	703	161	19	0	11.3		1942	
PCT	4.8	7.0	42.8	36.2	8.3	1.0	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	2.1	1.3	1.8	1.6		4.4
NE	.7	.4	1.1	4.5		6.7
E	.6	.4	1.3	10.3		7.3
SE	1.2	.7	1.1	7.3		6.7
S	3.1	2.0	2.9	7.9		5.7
SW	5.0	1.9	2.7	7.3		5.1
W	6.0	2.4	3.0	3.4		4.0
NW	4.0	1.6	2.4	2.2		4.2
VAR	.0	.0	.0	.0		.0
CALM	1.7	.7	1.2	2.4		4.9
TOT OBS	287	133	206	552	1178	5.4
TOT PCT	24.4	11.3	17.5	46.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	5500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.7	.0	.1	.1	.8	.4	.1	.1	.4	.0	3.9	
NE	1.0	.0	.1	1.2	1.1	.9	.1	.3	.2	.1	1.6	
E	3.0	.7	.9	1.8	2.1	.8	.4	.7	.6	.2	1.9	
SE	2.9	.1	.5	.2	1.6	.7	.1	.6	.4	.1	2.8	
S	3.2	.7	.1	1.0	1.4	.0	.3	.4	1.0	.5	7.0	
SW	2.9	.1	.2	.9	1.3	1.0	.5	.3	.5	.3	8.9	
W	1.3	.1	.2	.2	.6	1.1	.6	.2	.3	.2	10.1	
NW	.7	.0	.3	.2	.8	.8	.2	.2	.9	.2	6.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.0	.0	.3	.8	.3	.3	.2	.3	.0	3.1	
TOT OBS	194	30	69	123	81	29	36	50	19	538	1178	
TOT PCT	16.5	.8	2.5	5.9	10.4	6.9	2.5	3.1	4.2	1.6	45.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	3.9	5.1	5.7	5.8	5.8	5.8	5.8	5.8
= OR >5000	5.1	7.4	8.6	8.8	8.8	8.8	8.8	8.8
= OR >3500	6.6	9.4	10.9	11.2	11.2	11.2	11.2	11.2
= OR >2000	11.1	15.3	17.8	18.2	18.2	18.2	18.2	18.2
= OR >1000	15.7	24.0	27.7	28.3	28.3	28.6	28.7	28.7
= OR >600	17.1	27.1	32.3	33.6	33.9	34.6	34.6	34.6
= OR >300	17.4	27.9	33.9	35.6	36.1	36.8	37.1	37.1
= OR >150	17.4	28.1	34.4	36.1	36.9	37.6	38.0	38.0
= OR > 0	17.5	28.4	35.2	39.2	42.3	45.5	52.3	54.7
TOTAL	210	341	423	471	508	546	628	657

TOTAL NUMBER OF OBS: 1201

PCT FREQ NH <5/8: 45.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
14.1	9.5	8.6	5.0	3.6	3.4	4.7	6.3	25.8	14.7	1268

PERIOD: (PRIMARY) 1926-1971
(OVER-ALL) 1864-1971

JUNE

AREA 0000 CABOT STRAIT
46.7N 58.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.2	.2	.1	.3	.2	.1	.1	.0	.0	1.4	
	NO PCP	.4	.7	1.6	2.9	3.1	2.9	.8	.5	.0	.7	13.8	
	TOT %	.6	.9	1.8	3.0	3.4	3.1	1.0	.6	.0	.7	15.2	
1/2<1	PCP	.0	.1	.2	.1	.1	.1	.0	.1	.0	.1	.8	
	NO PCP	.2	.1	.4	.5	1.2	.6	.4	.5	.0	.0	3.9	
	TOT %	.2	.2	.5	.7	1.3	.8	.4	.6	.0	.1	4.7	
1<2	PCP	.0	.1	.9	.3	.3	.1	.1	.0	.0	.1	1.9	
	NO PCP	.1	.0	.3	.4	.3	.2	.2	.1	.0	.0	1.6	
	TOT %	.1	.1	1.2	.8	.6	.3	.3	.1	.0	.1	3.5	
2<5	PCP	.0	.6	1.4	.4	.4	.1	.0	.0	.0	.1	3.0	
	NO PCP	.1	.4	.7	.7	1.1	.6	.4	.4	.0	.3	4.7	
	TOT %	.1	1.0	2.1	1.1	1.5	.7	.4	.4	.0	.4	7.7	
5<10	PCP	.4	.3	.9	.2	.4	.4	.2	.2	.0	.1	3.1	
	NO PCP	1.5	1.3	2.2	2.1	3.7	3.8	3.7	3.4	.0	.5	22.3	
	TOT %	1.9	1.6	3.2	2.4	4.1	4.2	3.9	3.6	.0	.5	25.4	
10+	PCP	.0	.1	.4	.3	.2	.1	.1	.0	.0	.1	1.3	
	NO PCP	4.0	2.6	2.7	3.0	5.6	6.9	8.0	6.7	.0	2.5	42.2	
	TOT %	4.1	2.7	3.1	3.3	5.8	7.0	8.1	6.7	.0	2.6	43.5	
TOT OBS													1734
TOT PCT		4.9	6.5	11.9	11.3	16.6	16.1	14.2	12.1	.0	4.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.2	.2	.2	.5	.2	.1	.1	.0	.9	2.4	
	4-10	.3	.5	.8	1.7	1.3	1.6	.5	.4	.0	.0	7.0	
	11-21	.1	.2	.6	1.0	1.4	1.1	.4	.2	.0	.0	4.8	
	22+	.1	.1	.2	.1	.2	.3	.0	.0	.0	.0	.9	
	TOT %	.6	.9	1.7	3.0	3.4	3.1	1.0	.6	.0	.9	15.1	
1/2<1	0-3	.1	.0	.0	.0	.1	.1	.0	.1	.0	.1	.4	
	4-10	.1	.2	.3	.2	.4	.2	.2	.3	.0	.0	1.9	
	11-21	.1	.0	.2	.4	.8	.4	.2	.1	.0	.0	1.9	
	22+	.0	.0	.1	.1	.1	.1	.0	.1	.0	.0	.4	
	TOT %	.2	.2	.6	.7	1.3	.7	.4	.6	.0	.1	4.7	
1<2	0-3	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.4	.2	.2	.1	.2	.1	.0	.0	1.2	
	11-21	.1	.0	.4	.4	.2	.2	.1	.0	.0	.0	1.3	
	22+	.0	.1	.2	.2	.1	.0	.0	.0	.0	.0	.7	
	TOT %	.1	.1	1.1	.8	.6	.3	.3	.1	.0	.1	3.4	
2<5	0-3	.0	.1	.0	.0	.1	.0	.1	.0	.0	.4	.7	
	4-10	.0	.4	.4	.6	.4	.3	.3	.1	.0	.0	2.7	
	11-21	.1	.3	1.3	.4	.5	.2	.0	.2	.0	.0	3.0	
	22+	.0	.2	.4	.1	.4	.1	.1	.1	.0	.0	1.4	
	TOT %	.1	1.0	2.1	1.1	1.4	.6	.5	.4	.0	.4	7.8	
5<10	0-3	.1	.2	.3	.2	.3	.2	.3	.0	.0	.5	2.2	
	4-10	1.1	.5	1.2	1.1	1.8	1.7	1.4	1.5	.0	.0	10.3	
	11-21	.3	.8	1.2	.9	1.5	1.6	2.0	1.8	.0	.0	10.3	
	22+	.0	.1	.3	.1	.5	.6	.1	.2	.0	.0	1.9	
	TOT %	1.8	1.6	3.1	2.3	4.0	4.1	3.8	3.5	.0	.5	24.7	
10+	0-3	.3	.2	.2	.2	.6	.5	.3	.4	.0	2.7	5.3	
	4-10	1.6	1.6	1.3	1.4	2.9	3.5	3.6	3.1	.0	.0	19.2	
	11-21	1.8	.8	1.5	1.6	2.2	2.4	3.5	2.1	.0	.0	16.0	
	22+	.4	.0	.0	.1	.1	.8	.9	1.6	.0	.0	3.8	
	TOT %	4.1	2.6	3.1	3.3	5.8	7.2	8.4	7.2	.0	2.7	44.3	
TOT OBS													1810
TOT PCT		6.8	6.4	11.8	11.2	16.5	16.1	14.3	12.3	.0	4.6	100.0	

JUNE

PERIOD: (PRIMARY) 1926-1971
(OVER-ALL) 1264-1971AREA 0006 CABOT STRAIT
46.7N 58.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	16.2	.7	2.4	7.1	11.1	7.7	2.4	1.3	3.0	1.0	52.9	47.1	297
06Z09	17.6	1.6	2.0	8.6	9.4	11.3	2.7	1.6	1.6	1.2	57.4	42.6	256
12Z15	19.9	.0	3.1	3.1	10.7	4.2	1.3	5.2	5.8	1.8	55.2	44.8	382
18Z21	10.9	1.4	2.4	5.5	9.9	5.8	3.4	2.7	5.1	2.4	49.5	50.5	293
TOT	201	10	31	71	127	85	29	36	50	20	660	568	1228
PCT	16.4	.8	2.5	5.8	10.3	6.9	2.4	2.9	4.1	1.6	53.7	46.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	16.5	3.8	2.6	7.2	28.3	41.6	498
06Z09	17.6	3.5	2.4	6.2	25.7	44.4	369
12Z15	14.8	6.7	4.7	8.5	23.3	41.9	613
18Z21	13.0	3.7	3.2	8.6	23.6	47.9	407
TOT	291	88	64	146	475	823	1887
PCT	15.4	4.7	3.4	7.7	25.2	43.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 450YD	<600 41	<1000 45	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	16.6	21.7	34.5	22.4	43.1	290
06Z09	17.8	23.3	34.8	24.5	40.7	253
12Z15	20.4	25.0	35.2	24.2	40.6	372
18Z21	11.2	16.8	29.4	24.8	45.8	286
TOT	201	263	403	288	510	1201
PCT	16.7	21.9	33.6	24.0	42.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.1	.0	.1	.0	.0	.0	.0	2	.2
70/74	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
65/69	.0	.0	.2	.4	.1	.2	.0	.0	9	.8
60/64	.0	.1	.1	.4	.4	.3	.5	.0	18	1.7
55/59	.0	.3	.2	.9	1.1	2.0	2.1	.8	81	7.4
50/54	.0	.1	.1	.4	1.6	3.5	5.5	8.5	214	19.7
45/49	.0	.0	.1	.2	.7	5.9	11.8	23.2	436	41.9
40/44	.0	.0	.0	.0	.1	1.7	6.9	18.0	290	26.6
35/39	.0	.0	.0	.0	.0	.2	.5	1.0	18	1.7
TOTAL	0	6	6	25	43	130	297	562	1089	100.0
PCT	.0	.6	.6	2.3	3.9	13.8	27.3	51.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	*	.0	.0	.0	.1
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
.1	.0	.0	.0	.1	.3	.1	.1	.0	.1
.1	.1	.0	.1	.3	.3	.3	.1	.0	.2
.6	.4	.0	.8	1.8	1.4	1.3	.9	.0	.3
1.1	.9	1.2	2.0	5.2	3.7	2.2	2.0	.0	1.3
2.1	2.3	3.3	5.1	6.2	7.0	6.6	4.9	.0	2.2
1.9	2.8	4.6	2.4	3.2	3.8	4.0	2.7	.0	1.2
.3	.1	.2	.1	.1	*	.1	.3	.0	.4
6.3	6.7	11.4	10.4	16.9	16.8	14.7	11.0	.0	5.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	68	61	55	46	41	39	34	47.0	549
06Z09	68	60	53	46	40	38	33	46.1	386
12Z15	75	61	58	48	41	40	34	46.7	847
18Z21	81	73	61	49	42	39	35	49.8	432
TOT	81	63	57	47	41	39	33	48.0	2014

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	1.6	3.7	11.2	27.0	56.5	89	322
06Z09	.0	.8	1.6	9.8	24.2	63.5	91	244
12Z15	.0	2.8	3.7	17.4	27.6	48.4	87	322
18Z21	.0	9.0	6.9	15.5	28.6	40.0	83	245
TOT	0	38	45	134	305	591	88	1133

JUNE

PERIOD: (PRIMARY) 1926-1971
(OVER-ALL) 1864-1971

TABLE 17

AREA 0006 CABOT STRAIT
46.7N 58.2WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33	37	41	45	49	53	57	61	65	69	73	77	81	TOT	H FOG	NO FOG
	36	40	44	48	52	56	60	64	68	72	76	80	84			
>30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	2	.0	.1
20/22	.0	.0	.0	.0	.0	.1	.0	.1	.2	.2	.1	.0	.0	10	.0	.7
17/19	.0	.0	.0	.0	.0	.1	.3	.2	.1	.1	.0	.0	.0	11	.0	.8
14/16	.0	.0	.0	.1	.0	.8	.5	.2	.1	.0	.0	.0	.0	24	.1	1.5
11/13	.0	.0	.0	.1	.7	1.1	1.3	.5	.1	.0	.0	.0	.0	60	.5	3.6
9/10	.0	.0	.1	.3	1.4	1.0	.8	.1	.0	.0	.0	.0	.0	54	.5	3.2
7/8	.0	.0	.1	1.0	1.9	1.7	.3	.0	.0	.0	.0	.0	.0	71	1.0	3.9
6	.0	.0	.2	1.3	2.1	1.5	.2	.0	.0	.0	.0	.0	.0	78	1.0	4.4
5	.0	.1	.8	3.4	2.3	1.2	.1	.2	.0	.0	.0	.0	.0	119	1.3	6.9
4	.0	.2	1.9	5.0	2.4	.9	.4	.1	.0	.0	.0	.0	.0	158	2.5	8.4
3	.0	.0	3.0	5.8	3.3	1.0	.1	.1	.0	.0	.0	.0	.0	194	3.2	10.1
2	.0	.4	5.1	6.2	2.8	.3	.0	.0	.0	.0	.0	.0	.0	217	3.5	11.2
1	.0	.8	4.5	5.1	1.9	.3	.0	.0	.0	.0	.0	.0	.0	182	2.9	9.6
0	.0	.7	4.0	2.5	2.0	.2	.1	.0	.0	.0	.0	.0	.0	179	2.6	6.9
-1	.0	.2	1.0	1.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	52	1.2	2.3
-2	.0	.3	.6	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	10	.5	1.5
-3	.0	.1	.8	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	24	.6	1.0
-4	.0	.2	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	3	.3	.6
-5	.1	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	7	.1	.4
-6	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	5	.1	.2
-7/-8	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-9/-10	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.1	.3
-11/-13	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	44	333	506	322	152	64	20	6	4	2	1	1453	322	1136	
PCT	.1	3.0	22.8	34.7	22.1	10.4	4.4	1.4	.4	.3	.2	.1	.1	100.0	22.1	77.9

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6	<1	.0	1.3	.0	.0	.0	.0	2.0
1-2	.0	1.4	1.6	.0	.0	.0	2.9	1-2	.0	1.6	.1	.0	.0	.0	1.7
3-4	.0	.6	1.1	.4	.0	.0	2.1	3-4	.0	.8	1.3	.0	.0	.0	2.1
5-6	.0	.0	.6	.4	.0	.0	1.0	5-6	.0	.0	.5	.0	.1	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.4	.0	.4
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	3.3	1.0	.0	.0	7.8	TOT PCT	.7	3.7	1.8	.0	.5	.0	6.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.6	.0	.0	.0	1.9	<1	.4	1.8	.1	.0	.0	.0	2.3
1-2	.4	1.6	.0	.0	.0	.0	2.0	1-2	.0	.7	2.0	.0	.0	.0	2.7
3-4	.0	.7	1.6	.4	.0	.0	2.7	3-4	.0	.8	2.4	.4	.0	.0	3.6
5-6	.0	.0	.6	.4	.6	.0	1.6	5-6	.0	.0	.5	.7	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.6	2.9	.7	.6	.0	8.3	TOT PCT	.4	3.5	4.9	1.1	.0	.0	9.9

PERIOD: (OVER-ALL) 1963-1971

JUNE
TABLE 18 (CONT)AREA 0006 CABOT STRAIT
46.7N 58.2W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.1	1.6	.4	.0	.0	.0		3.0	.0	2.0	.0	.0	.0	.0		2.0
1-2	.0	3.0	2.8	.0	.0	.0		5.8	.0	2.6	2.2	.0	.0	.0		4.8
3-4	.0	2.0	6.6	1.4	.0	.0		9.9	.0	1.9	5.7	.1	.0	.0		7.7
5-6	.0	.7	1.2	.6	.4	.0		2.9	.0	.7	.6	.1	.0	.0		1.5
7	.0	.0	.9	.4	.0	.0		1.3	.0	.0	.9	.7	.0	.0		1.6
8-9	.0	.3	.0	.3	.0	.0		.5	.0	.0	.0	.1	.0	.0		.1
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.1	7.6	11.9	2.6	.4	.0		23.5	.0	7.3	9.4	1.0	.0	.0		17.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	1.1	.6	.0	.0	.0	.0		1.7	.0	.5	.0	.0	.0	.0		.5	
1-2	.0	2.4	.9	.0	.0	.0		3.3	.0	3.0	1.4	.0	.0	.0		4.4	
3-4	.0	1.1	3.4	.0	.0	.0		4.5	.4	1.1	1.0	.0	.0	.0		2.5	
5-6	.0	.0	1.0	.0	.0	.0		1.0	.0	.0	.8	.0	.0	.0		.8	
7	.0	.0	.4	.4	.0	.0		.7	.0	.4	.7	.4	.0	.0		1.5	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0		.1	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	1.1	4.1	5.7	.7	.0	.0		11.6	.4	4.9	3.9	.5	.0	.0		9.7	95.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.6	10.3	1.1	.0	.0	.0	21.0	
1-2	.7	16.0	10.7	.0	.0	.0	27.4	
3-4	.4	9.3	22.4	2.5	.0	.0	34.5	
5-6	.0	1.4	5.7	2.1	1.1	.0	10.3	
7	.0	.4	2.8	1.8	.0	.0	5.0	
8-9	.0	.4	.0	.4	.0	.0	.7	
10-11	.0	.0	.0	.4	.0	.0	.4	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.4	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.7	37.7	42.7	7.5	1.4	.0	100.0	281

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.9	16.5	19.2	6.7	2.6	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	317
6-7	.2	2.1	7.9	6.4	2.9	1.2	.8	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	146
8-9	.0	1.2	1.7	1.2	2.0	.6	.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49
10-11	.0	.0	.9	.8	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15
12-13	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
>13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
INDEX	6.7	6.0	3.4	2.0	.3	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122
TOTAL	64	169	218	114	93	15	8	7	2	3	2	0	0	0	0	0	0	0	0	0	655
PCT	9.8	25.8	33.3	17.4	8.1	2.3	1.2	1.1	.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1926-1970
(OVER-ALL) 1874-1970

JULY

AREA 0006 CABOT STRAIT
46.6N 58.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WFA
N	6.6	3.1	5.5	.0	.0	.0	.0	11.3	2.3	.0	14.8	2.7	1.6	.0	67.2
NE	7.6	4.0	1.0	.0	.0	.0	.0	11.6	4.0	.5	23.7	3.0	2.0	.0	55.1
E	9.5	.0	4.9	.0	.0	.0	.0	12.6	1.6	.7	44.3	.9	2.1	.6	37.1
SE	10.5	.5	2.1	.0	.0	.0	.0	12.5	.7	2.3	38.7	1.0	2.0	.0	44.1
S	5.0	2.9	2.4	.0	.0	.0	.0	9.4	1.3	1.7	42.9	.6	3.3	.0	42.0
SW	2.1	1.1	.2	.0	.0	.0	.0	3.3	.6	.6	35.1	1.0	4.0	.3	55.0
W	.6	1.5	.6	.0	.0	.0	.0	2.6	.0	.0	25.4	.0	4.1	.0	67.9
NW	.0	1.2	.0	.0	.0	.0	.0	1.2	1.2	.0	14.9	.2	3.9	.0	78.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.3	1.3	1.3	.0	.0	.0	.0	8.0	.0	.0	36.0	2.7	1.3	.0	52.0
TOT PCT	4.8	1.5	1.8	.0	.0	.0	.0	7.4	1.0	.9	34.1	1.0	3.1	.1	52.9
TOT OBS:	1.71														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	3.9	1.8	1.3	.0	.0	.0	.0	6.7	.5	1.8	30.8	.3	2.8	.3	57.8
06009	7.9	1.0	3.9	.0	.0	.0	.0	10.5	1.0	1.6	30.2	1.6	1.6	.0	54.1
12015	3.9	1.4	1.9	.0	.0	.0	.0	6.8	1.2	.2	39.0	1.2	2.9	.0	47.8
18021	3.8	1.5	.0	.0	.0	.0	.0	5.3	1.5	.0	32.8	.9	4.7	.3	54.4
TOT PCT TOT OBS:	4.7	1.5	1.7	.0	.0	.0	.0	7.2	1.1	.9	34.0	1.0	3.0	.1	53.1
	1514														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.5	2.0	1.6	.2	.0	.0		4.2	10.1	5.4	3.5	6.2	4.1	3.5	2.8	4.1	3.5	
NE	.4	1.8	1.1	.1	.0	.0		3.4	9.8	1.4	5.3	5.6	4.6	4.5	2.8	3.0	1.0	
E	.8	4.5	4.4	1.1	.0	.0		10.8	11.6	8.9	11.2	7.0	9.6	11.4	16.3	12.8	8.2	
SE	1.2	6.6	4.7	.8	.1	.0		13.3	10.9	14.4	14.3	11.8	11.8	13.3	11.3	15.6	12.7	
S	1.4	8.2	8.6	1.9	.1	.0		20.3	12.0	23.2	17.3	17.5	23.6	18.2	14.3	22.9	26.2	
SW	1.6	9.5	9.4	1.9	.1	.0		22.7	11.7	23.1	21.3	26.0	22.3	26.7	21.8	18.6	16.4	
W	1.0	5.1	4.8	.9	.0	.0		11.9	11.3	11.0	17.1	12.6	12.1	9.7	12.9	10.7	13.9	
NW	.7	3.4	3.5	.9	.0	.0		8.4	11.9	9.4	7.5	8.7	4.6	7.1	9.9	6.6	15.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.1							5.1	.0	3.2	2.6	4.7	7.1	5.6	7.9	5.7	3.1	
TOT OBS	209	676	629	126	3	0	1643		10.9	313	114	193	140	324	203	228	128	
TOT PCT	12.7	41.1	38.3	7.7	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+	00				06	12	18		
		03	09	15	21									
N	1.4	2.2	.6	.0	.0		4.2	10.1	4.9	5.3	3.2	3.9		
NE	1.1	1.9	.4	.0	.0		3.4	9.8	2.5	5.2	3.8	2.2		
E	3.0	5.3	2.4	.1	.0		10.8	11.6	9.5	8.1	13.3	11.2		
SE	3.2	8.0	1.9	.2	.0		13.3	10.9	14.3	11.8	12.6	14.5		
S	4.7	11.0	4.1	.4	.1		20.3	12.0	21.6	20.0	16.7	24.1		
SW	5.1	13.2	4.1	.3	.0		22.7	11.7	22.6	24.5	24.8	17.8		
W	3.3	6.4	2.1	.1	.0		11.9	11.3	12.6	12.4	11.0	11.9		
NW	2.3	4.2	1.8	.2	.0		8.4	11.9	8.9	7.0	8.2	9.6		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	5.1						5.1	.0	3.0	5.7	6.5	4.8		
TOT OBS	478	857	287	20	1	1643		10.9	427	393	527	356		
TOT PCT	29.1	52.2	17.5	1.2	.1		100.0		100.0	100.0	100.0	100.0		

JULY

PERIOD: (PRIMARY) 1926-1970
(OVER-ALL) 1874-1970AREA 0006 CAROT STRAIT
46.6N 58.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.0	7.5	44.3	38.2	6.8	.2	.0	10.9	100.0	427
0600	5.7	5.1	42.3	40.2	6.6	.0	.0	10.8	100.0	333
1200	6.5	10.6	38.5	35.5	8.9	.0	.0	10.6	100.0	527
1800	4.8	5.9	40.2	40.7	7.9	.6	.0	11.4	100.0	356
TOT	83	126	676	629	126	3	0	10.9		1643
PCT	5.1	7.7	41.1	38.3	7.7	.2	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	.5	.5	1.5		4.8
NE	.9	.1	.5	2.0		5.9
E	1.1	.4	1.7	10.6		7.1
SE	1.7	1.3	2.7	7.5		6.3
S	3.3	1.1	3.8	11.6		6.2
SW	5.9	2.5	4.0	7.9		5.0
W	4.0	2.2	2.5	3.2		4.4
NW	3.8	1.4	1.6	1.6		3.7
VAR	.0	.0	.0	.0		.0
CALM	1.1	.7	.8	2.5		5.4
TOT OBS	232	104	184	490	1010	5.6
TOT PCT	23.0	10.3	18.2	48.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & MBCSD	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.2	.5	.5	1.5		4.8	.3	.0	.0	.4	.4	.4	.3	.0	.0	.1	1.8	
NE	.9	.1	.5	2.0		5.9	.9	.0	.0	.3	.8	.1	.1	.0	.1	.0	1.1	
E	1.1	.4	1.7	10.6		7.1	6.1	.1	.4	1.4	1.8	.6	.2	.7	.6	.6	1.9	
SE	1.7	1.3	2.7	7.5		6.3	3.7	.1	.4	1.1	1.0	1.3	.3	.3	.3	.2	4.4	
S	3.3	1.1	3.8	11.6		6.2	6.8	.4	.4	1.1	1.6	.8	.6	.6	.7	.3	6.6	
SW	5.9	2.5	4.0	7.9		5.0	4.5	.1	.2	.6	1.3	1.1	.3	.5	.5	.3	10.9	
W	4.0	2.2	2.5	3.2		4.4	2.3	.0	.1	.2	.4	.3	.3	.2	.5	.3	7.3	
NW	3.8	1.4	1.6	1.6		3.7	.6	.0	.1	.4	.4	.7	.4	.4	.1	.5	5.7	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.1	.7	.8	2.5		5.4	1.5	.0	.1	.1	.3	.1	.1	.3	.2	.1	2.3	
TOT OBS	232	104	184	490	1010	5.6	270	8	17	58	80	55	23	26	35	15	423	1010
TOT PCT	23.0	10.3	18.2	48.5	100.0		26.7	.8	1.7	5.7	7.9	5.4	2.3	2.6	3.5	1.5	41.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50 YD	= OR >0
= OR >6500	2.6	4.1	4.3	4.3	4.7	4.7	4.7	4.8
= OR >5000	3.5	6.1	6.8	6.9	7.3	7.3	7.3	7.4
= OR >3500	4.6	8.0	8.9	9.0	9.4	9.4	9.5	9.6
= OR >2000	7.7	12.5	13.9	14.3	14.8	14.8	14.9	15.0
= OR >1000	10.9	18.4	21.0	21.9	22.5	22.5	22.8	22.9
= OR >600	12.3	22.3	26.3	27.3	27.9	28.0	28.5	28.6
= OR >300	12.4	22.8	27.4	28.6	29.2	29.5	30.0	30.1
= OR >150	12.4	22.8	27.5	28.9	29.8	30.3	30.8	30.9
= OR >0	12.4	23.0	28.8	32.7	37.2	42.3	53.3	57.6
TOTAL	125	233	291	391	376	428	539	583

TOTAL NUMBER OF OBS: 1012

PCT FREQ NH <5/8: 42.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
18.2	7.8	8.0	5.2	3.3	4.3	4.7	6.4	17.6	24.5	1055

PERIOD: (PRIMARY) 1926-1970
(OVER-ALL) 1874-1970

JULY

AREA 0006 CABOT STRAIT
46.6N 58.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.3	.3	.8	.7	.1	.0	.0	.0	1.8	
	NO PCP	.2	.6	2.8	3.2	5.7	5.8	1.8	.5	.0	1.2	21.5	
	TOT %	.2	.7	3.1	3.6	6.6	5.6	1.8	.5	.0	1.2	23.2	
1/2<1	PCP	.0	.0	.1	*	.1	.1	.0	.0	.0	.1	.4	
	NO PCP	.1	.1	1.0	.7	1.3	.9	.3	.3	.0	.3	4.9	
	TOT %	.1	.1	1.1	.7	1.3	1.0	.3	.3	.0	.4	5.3	
1<2	PCP	.1	.1	.3	.1	.1	.1	.0	.0	.0	.0	.7	
	NO PCP	.1	.1	.6	.6	.7	.5	.4	.2	.0	.1	3.4	
	TOT %	.1	.1	.9	.7	.9	.6	.4	.2	.0	.1	4.1	
2<5	PCP	.1	.2	.3	.4	.3	.7	.1	.0	.0	.1	1.7	
	NO PCP	.1	.2	.8	.7	1.1	.8	.6	.3	.0	.1	4.6	
	TOT %	.2	.3	1.1	1.1	1.4	1.0	.7	.3	.0	.3	6.3	
5<10	PCP	.4	.1	.3	.7	.5	.1	.1	.1	.0	.1	2.4	
	NO PCP	1.9	1.0	1.7	2.7	4.2	5.9	3.5	2.6	.0	.7	23.8	
	TOT %	1.8	1.1	2.1	3.4	4.7	6.1	3.6	2.7	.0	.8	26.2	
10+	PCP	.0	.1	.1	*	.1	.1	.1	.0	.0	.0	.4	
	NO PCP	1.9	1.0	3.0	3.6	5.3	7.6	4.8	4.8	.0	2.4	34.4	
	TOT %	1.9	1.1	3.1	3.6	5.4	7.7	4.8	4.8	.0	2.4	34.8	
TOT OBS													1471
TOT PCT													
		4.4	3.4	11.4	13.1	20.3	22.0	11.7	8.8	.0	5.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.3	.5	.4	.3	.2	*	.0	1.1	2.9	
	4-10	.1	.4	1.4	1.5	2.5	2.6	1.1	.4	.0		10.0	
	11-21	.0	.2	1.1	1.4	2.9	2.1	.5	*	.0		8.3	
	22+	.0	.0	.1	.1	.6	.6	*	*	.0		1.4	
	TOT %	.2	.6	3.0	3.4	6.4	5.6	1.8	.5	.0	1.1	22.6	
1/2<1	0-3	*	.0	.0	.1	.4	.1	.0	*	.0	.4	1.0	
	4-10	*	*	.1	.4	.5	.4	.1	.1	.0		1.7	
	11-21	*	.0	.7	.2	.3	.3	.2	.2	.0		2.1	
	22+	.0	.1	.2	*	.1	.0	.0	.0	.0		.3	
	TOT %	.1	.1	1.0	.7	1.3	.9	.3	.3	.0	.4	5.0	
1<2	0-3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.3	
	4-10	.1	.0	.2	.2	.3	.2	.3	.1	.0		1.5	
	11-21	.0	.1	.4	.2	.6	.3	.1	.1	.0		1.8	
	22+	.0	.1	.2	.1	.1	*	.0	.1	.0		.6	
	TOT %	.1	.1	.9	.7	1.0	.6	.5	.2	.0	.1	4.2	
2<5	0-3	*	.1	.1	.1	.0	.1	.1	.1	.0	.3	.9	
	4-10	.0	.1	.3	.4	.6	.4	.1	*	.0		2.1	
	11-21	.1	.1	.6	.6	.8	.8	.4	.1	.0		3.4	
	22+	*	.0	*	*	.1	.1	.0	*	.0		.3	
	TOT %	.2	.3	1.1	1.1	1.5	1.4	.6	.3	.0	.3	6.6	
5<10	0-3	.1	.1	.1	.2	.2	.3	.2	.4	.0	.8	2.4	
	4-10	.9	.5	.8	1.6	1.7	2.7	1.6	1.2	.0		10.9	
	11-21	.6	.4	.9	1.1	2.0	2.5	1.3	.8	.0		9.6	
	22+	.1	.0	.2	.3	.8	.7	.4	.3	.0		2.8	
	TOT %	1.7	1.0	2.0	3.3	4.6	6.2	3.5	2.6	.0	.8	25.7	
10+	0-3	.2	.1	.3	.2	.4	.8	.4	.2	.0	2.3	4.9	
	4-10	.8	.7	1.7	2.3	2.4	3.1	1.9	1.6	.0		14.6	
	11-21	.8	.4	.8	1.1	2.2	3.8	2.4	2.4	.0		13.9	
	22+	.1	.0	.4	.2	.4	.5	.3	.5	.0		2.5	
	TOT %	1.9	1.2	3.3	3.8	5.4	8.2	5.0	4.8	.0	2.3	35.9	
TOT OBS													1545
TOT PCT													
		4.2	3.4	11.2	12.9	20.0	22.9	11.8	8.6	.0	4.9	100.0	

JULY

PERIOD: (PRIMARY) 1926-1970
(OVER-ALL) 1874-1970AREA 0006 CABOT STRAIT
46.6N 58.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	23.5	.9	.9	4.8	9.6	6.5	.9	.4	1.7	3.5	52.6	47.4	230
06009	22.1	.5	2.8	5.2	10.3	3.8	3.8	.9	2.8	.0	52.1	47.9	213
12015	33.4	.6	1.5	5.0	5.6	5.6	.9	5.6	4.6	.6	63.5	36.5	323
18021	22.6	1.1	1.5	7.4	6.7	5.2	4.1	1.9	3.7	1.9	55.9	44.1	270
TOT	270	8	17	58	80	55	24	26	35	15	588	448	1036
PCT	26.1	.8	1.6	5.6	7.7	5.3	2.3	2.5	3.4	1.4	56.8	43.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	24.3	3.9	2.2	4.4	32.6	32.6	408
06009	21.3	5.0	3.1	6.6	26.6	37.5	320
12015	25.1	6.5	4.3	5.9	22.2	34.1	510
18021	18.3	4.9	4.3	9.7	23.7	39.1	350
TOT	359	82	66	103	414	564	1588
PCT	22.6	5.2	4.2	6.5	26.1	35.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	24.1	28.1	38.4	19.6	42.0	224
06009	22.7	31.9	40.6	17.4	42.0	207
12015	34.3	38.4	49.1	18.9	32.1	318
18021	23.2	28.5	44.5	17.5	38.0	263
TOT	271	326	443	186	383	1012
PCT	26.8	32.2	43.8	18.4	37.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.1	.0	.0	.1	.0	.0	2	.2
75/79	.0	.0	.1	.2	.0	.0	.0	.0	3	.3
70/74	.0	.1	.0	.1	.5	.4	.9	.4	24	2.5
65/69	.0	.1	.0	.3	.3	.9	2.7	2.5	66	6.8
60/64	.0	.0	.0	.1	1.1	4.8	6.5	8.2	200	20.7
55/59	.0	.0	.0	.3	.4	3.6	13.8	20.9	377	39.0
50/54	.0	.0	.0	.1	.2	1.1	5.6	18.6	248	25.7
45/49	.0	.0	.0	.0	.0	.0	.9	3.8	46	4.8
TOTAL	0	2	2	11	25	106	294	526	966	100.0
PCT	.0	.2	.2	1.1	2.6	11.0	30.4	54.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
.0	.0	.0	.0	.0	.2	.0	.0	.0	.1
.0	.0	.2	.2	.8	.7	.2	.1	.0	.3
.2	.3	.4	.7	2.0	2.6	.5	.1	.0	.1
.8	.4	1.6	3.0	5.0	5.6	2.2	1.0	.0	1.0
1.6	1.9	4.0	5.3	8.7	8.2	4.0	3.6	.0	1.7
2.1	.8	4.2	4.4	3.4	4.0	3.5	2.2	.0	1.1
.3	.4	.7	.6	.5	.2	.8	1.0	.0	.2
5.0	3.8	11.2	14.3	20.5	21.6	11.2	8.0	.0	4.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	74	69	65	56	49	47	45	56.4	436
06009	72	68	63	55	47	35	35	54.9	340
12015	80	74	66	57	50	48	37	57.4	531
18021	82	72	68	59	50	48	45	58.9	368
TOT	82	71	66	57	49	46	35	57.0	1675

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.3	1.4	8.2	32.2	57.9	91	292
06009	.0	.9	.5	5.7	29.7	63.2	92	212
12015	.0	2.3	2.3	13.6	26.4	55.5	89	265
18021	.0	3.2	6.4	16.4	34.5	39.5	85	220
TOT	0	16	25	108	303	537	89	989

JULY

PERIOD: (PRIMARY) 1926-1970
(OVER-ALL) 1974-1970AREA 0006 CABOT STRAIT
46.0N 58.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	48	49	53	57	61	65	69	73	77	81	TOT	N FOG	NO FOG
23/25	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	2	.1	.1
20/22	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	2	.0	.2
17/19	.0	.0	.0	.0	.1	.2	.0	.1	.0	.0	4	.1	.3
14/16	.1	.0	.0	.3	.4	.5	.2	.0	.0	.0	17	.3	1.2
11/13	.0	.1	.3	.5	.3	.8	.3	.1	.1	.0	32	.8	1.9
9/10	.0	.1	.8	1.3	1.4	.9	.3	.0	.0	.0	98	1.5	3.4
7/8	.1	.2	1.7	2.0	1.6	1.1	.6	.0	.0	.1	86	2.6	4.7
6	.0	.3	1.5	2.0	1.7	.3	.0	.1	.0	.0	69	2.2	3.7
5	.0	.8	2.5	1.7	1.1	.3	.2	.0	.0	.0	78	2.0	4.7
4	.2	1.4	3.1	3.2	1.8	.6	.4	.0	.0	.0	127	3.6	7.2
3	.3	2.4	3.5	3.6	1.5	.4	.1	.0	.0	.0	138	3.7	8.1
2	.3	2.5	4.0	4.4	1.1	.3	.1	.0	.0	.0	150	4.5	8.2
1	.7	2.1	4.2	3.7	1.2	.0	.0	.0	.0	.0	140	4.5	7.4
0	.5	2.1	3.5	2.9	.5	.1	.0	.1	.0	.0	114	3.7	6.0
-1	.4	1.4	2.1	.7	.3	.0	.0	.0	.0	.0	98	1.8	3.1
-2	.3	1.0	1.3	.4	.3	.1	.1	.0	.0	.0	40	1.4	2.0
-3	.0	.5	.8	.3	.2	.0	.1	.0	.0	.0	22	.3	1.4
-4	.0	.3	.6	.2	.0	.0	.0	.0	.0	.0	13	.3	.8
-5	.0	.3	.3	.2	.0	.0	.0	.0	.0	.0	11	.2	.8
-6	.0	.6	.3	.1	.0	.0	.0	.0	.0	.0	12	.1	.9
-7/-8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.3
-11/-13	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	33	199	301	321	161	67	28	4	3	1	1178	33.6	66.4
PCT	2.8	16.9	30.6	27.2	13.7	5.7	2.4	.3	.3	.1	100.0	33.6	66.4

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	.4	.0	.4	.4	.0	.0	.0	.8
1-2	.0	.4	.8	.0	.0	.0	1.2	.0	.4	.4	.0	.0	.0	.8
3-4	.3	.0	2.9	.7	.0	.0	3.9	.5	.8	.0	.0	.0	.0	1.2
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	.4	4.3	.7	.0	.0	6.0	.5	1.5	1.1	.0	.0	.0	3.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.7	.7	.0	.0	.0	3.4	.5	1.1	.5	.0	.0	.0	2.1
1-2	.0	1.3	2.3	.0	.0	.0	3.6	.5	2.5	1.1	.0	.0	.0	4.1
3-4	.0	1.1	1.3	.9	.0	.0	3.4	.4	1.3	3.5	.6	.0	.0	5.8
5-6	.0	.0	.4	.4	.0	.0	.8	.0	.4	2.2	.8	.0	.0	3.3
7	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.2	4.6	2.8	.0	.0	12.6	1.3	5.3	7.3	2.1	.0	.0	15.9

PERIOD: (OVER-ALL) 1963-1970

JULY

AREA 0006 CABOT STRAIT
46.0N 58.3W

TABLE 18 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.1	.4	.0	.0	.0	3.1	.4	1.6	.4	.0	.0	.0	2.4
1-2	.6	3.7	4.0	.0	.0	.0	8.2	.1	2.8	1.7	.0	.0	.0	4.6
3-4	.0	3.8	4.4	1.1	.0	.0	9.3	.0	1.4	2.5	1.5	.0	.0	5.5
5-6	.0	.3	2.6	.3	.0	.0	3.2	.0	.9	1.6	.1	.0	.0	2.6
7	.0	.0	.0	.8	.0	.0	.8	.0	.0	.8	.4	.0	.0	1.1
8-9	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	9.8	12.2	2.2	.0	.0	23.4	.4	6.8	7.0	2.1	.0	.0	16.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.0	.4	.0	.0	.0	.7	.1	.4	.0	.0	.0	.0	.5	
1-2	.0	2.0	1.0	.0	.0	.0	3.0	.0	1.3	1.1	.0	.0	.0	2.5	
3-4	.3	1.4	1.8	.0	.0	.0	3.5	.1	.4	2.7	.3	.0	.0	3.7	
5-6	.0	.3	1.0	.0	.0	.0	1.3	.0	.0	.3	.0	.0	.0	.3	
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	3.7	4.2	.7	.0	.0	9.2	.2	2.1	4.5	.8	.0	.0	7.6	96.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	6.0	8.3	2.6	.0	.0	.0	16.9	
1-2	1.5	14.3	12.4	.0	.0	.0	28.2	
3-4	1.5	10.2	19.2	4.3	.0	.0	36.1	
5-6	.0	1.9	9.0	1.8	.0	.0	12.4	
7	.0	.0	1.1	3.4	.0	.0	4.5	
8-9	.0	.0	.8	.8	.0	.0	1.5	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.0	34.6	45.1	11.3	.0	.0	100.0	766

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.4	21.3	21.8	6.9	2.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	339	3
6-7	.2	2.3	7.2	6.7	3.7	.8	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129	5
8-9	.2	.5	1.7	1.8	1.7	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	5
10-11	.0	.2	.5	.3	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	5
12-13	.0	.0	.7	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
>13	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
INDPT	5.2	2.7	3.2	.7	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	2
TOTAL	59	161	209	99	46	11	7	3	2	0	0	0	0	0	0	0	0	0	0	597	3
PCT	9.9	27.0	35.0	16.6	7.7	1.8	1.2	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1944-1970
(OVER-ALL) 1887-1970

AUGUST

AREA 0006 CABOT STRAIT
46.6N 58.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	6.3	.7	3.0	.0	.0	.0	.0	10.0	3.7	.0	2.7	.0	.0	.0	83.7
NE	9.1	1.7	5.2	.0	.0	.0	.0	15.9	.0	.0	11.6	.0	.0	.0	72.4
E	7.7	1.2	6.8	.0	.0	.0	.0	15.7	3.3	.0	23.1	.0	2.1	.0	55.8
SE	8.7	3.4	7.2	.0	.0	.0	.0	19.4	1.9	.9	20.6	3.4	6.0	.0	48.7
S	3.4	2.0	5.6	.0	.0	.0	.0	11.0	1.4	.9	23.8	.9	3.1	.0	59.3
SW	3.9	2.0	1.0	.0	.0	.0	.0	6.5	.9	.8	20.3	1.5	3.4	.0	67.0
W	2.4	1.0	.8	.0	.0	.0	.0	4.1	.9	.5	11.6	.5	4.3	.4	78.3
NW	1.9	1.9	.3	.0	.0	.0	.0	4.0	.2	.6	7.0	1.2	.2	.2	86.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32.1	.0	.0	.0	67.9
TOT PCT	4.3	1.8	3.0	.0	.0	.0	.0	9.0	1.3	.6	16.7	1.1	2.8	.1	68.9
TOT OBS:	1200														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.1	.8	4.5	.0	.0	.0	.0	9.4	1.5	.8	15.0	1.9	2.3	.4	69.5
0600	4.5	2.1	1.7	.0	.0	.0	.0	8.3	2.1	1.7	18.2	2.1	1.7	.0	66.5
1200	5.3	2.9	1.5	.0	.0	.0	.0	9.7	.5	.0	17.4	.7	3.9	.0	67.8
1800	2.7	.7	4.8	.0	.0	.0	.0	7.8	1.4	.3	16.7	.0	2.7	.0	71.3
TOT PCT	4.3	1.7	3.0	.0	.0	.0	.0	8.9	1.2	.6	16.9	1.1	2.8	.1	68.8
TOT OBS:	1214														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	2.4	2.7	.6	.1	.0		6.4	12.9		5.1	7.5	7.9	8.1	6.4	4.0	9.2	2.5
NE	.4	2.1	2.1	.2	.4	.0		4.9	11.5		4.4	6.5	2.6	6.8	4.0	7.4	5.2	4.7
E	.5	2.0	2.9	.9	.4	.1		6.7	15.5		6.0	5.1	2.6	3.7	6.1	14.1	7.1	6.4
SE	.9	3.3	3.7	1.3	.3	.1		9.4	13.9		11.3	11.6	5.0	6.8	10.4	8.4	11.1	9.1
S	.8	7.2	7.9	1.5	.0	.0		17.4	12.3		17.0	19.9	18.6	21.4	17.0	11.8	21.0	13.2
SW	1.1	8.6	10.4	2.4	.1	.0		22.6	12.9		24.5	18.5	24.6	31.3	22.9	20.7	18.4	21.1
W	1.0	6.5	7.3	1.3	.2	.1		16.3	12.9		14.9	15.1	19.9	9.9	16.0	18.9	12.9	25.2
NW	.4	5.0	6.4	1.5	.1	.0		13.4	13.8		14.4	14.4	16.7	8.1	14.1	12.3	12.6	11.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9							2.9	.0		2.5	1.4	2.3	2.1	3.2	2.5	2.7	6.9
TOT OBS	116	501	988	131	16	4	1356		12.7		242	73	175	96	282	163	223	102
TOT PCT	8.6	36.9	43.4	9.7	1.2	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	1.7	2.7	1.6	.4	.0			6.4	12.9		5.6	7.9	5.5	7.1
NE	1.2	2.7	.8	.1	.0			4.9	11.5		4.9	4.1	5.2	5.0
E	1.2	3.1	1.7	.6	.1			6.7	15.5		5.8	3.7	9.0	6.8
SE	2.0	4.1	2.6	.6	.1			9.4	13.9		11.3	5.6	9.7	10.5
S	4.2	8.8	4.0	.3	.0			17.4	12.3		17.7	19.6	15.1	18.5
SW	4.7	11.9	5.6	.4	.0			22.6	12.9		23.1	26.9	22.1	19.2
W	3.8	8.2	3.8	.4	.1			16.3	12.9		14.9	16.3	17.0	16.8
NW	2.3	6.4	4.0	.7	.0			13.4	13.8		14.4	13.7	13.4	12.1
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	2.9							2.9	.0		2.2	2.2	2.9	4.0
TOT OBS	326	651	326	48	5	1356			12.7		315	271	445	325
TOT PCT	24.0	48.0	24.0	3.5	.4			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1944-1970
(OVER-ALL) 1887-1970

AUGUST

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46.6N 56.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	2.2	5.7	39.4	43.5	8.3	.6	.3	12.1	100.0	315
0600	2.2	3.0	41.3	43.9	8.5	.4	.7	12.7	100.0	271
1200	2.9	8.3	32.4	43.1	11.2	1.8	.2	13.1	100.0	445
1800	4.0	4.3	37.2	43.1	9.8	1.5	.0	13.0	100.0	325
TOT	39	77	501	588	131	16	4	12.7		1356
PCT	2.9	5.7	36.9	43.4	9.7	1.2	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	1.4	1.6	1.9		5.0
NE	.2	.6	1.2	2.2		6.3
E	.7	.5	1.8	5.3		6.8
SE	1.0	.8	1.6	5.4		6.4
S	4.0	2.1	3.2	7.6		5.4
SW	6.1	2.6	5.9	7.5		5.0
W	6.1	2.6	3.8	4.5		4.4
NW	5.1	3.0	3.5	2.5		4.0
VAR	.0	.0	.0	.0		.0
CALM	.8	.4	.4	.5		4.4
TOT OBS	233	129	210	341	913	5.1
TOT PCT	25.5	14.1	23.0	37.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.2	.1	.1	.4	1.2	.6	.3	.0	.1	.1	3.4	
.4	.1	.1	.2	.8	.1	.0	.0	.0	.3	1.5	
2.0	.1	.1	.8	1.1	.8	.2	.5	.6	.2	1.8	
1.8	.4	.4	.9	1.1	.8	.5	.1	.2	.0	2.6	
3.3	.0	.1	1.1	1.8	1.0	.4	.2	.6	.5	7.8	
3.5	.0	.6	.5	2.3	1.2	.4	.8	1.0	.5	11.5	
1.1	.1	.3	.5	1.9	.8	.4	.7	.4	.1	10.8	
.4	.0	.0	.9	1.3	1.1	.3	.6	.4	.0	9.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.2	.0	.0	.1	.2	.1	.0	.1	.1	.0	1.3	
117	6	15	50	106	66	24	30	16	455	913	
12.8	.7	1.6	5.5	11.6	7.2	2.6	3.1	3.3	1.8	49.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	3.1	4.1	4.9	4.9	4.9	4.9	5.0	5.0
= OR >5000	4.6	6.9	7.9	8.0	8.0	8.0	8.1	8.1
= OR >3500	6.3	9.2	10.3	10.6	10.6	10.6	10.7	10.7
= OR >2000	10.1	14.9	17.3	17.8	17.8	17.8	17.9	17.9
= OR >1000	15.4	24.4	28.4	29.0	29.1	29.1	29.2	29.4
= OR >600	18.4	29.2	33.7	34.5	34.7	34.7	34.8	35.0
= OR >300	18.8	30.2	35.0	35.9	36.2	36.2	36.3	36.5
= OR >150	18.8	30.5	35.4	36.3	36.8	36.9	37.0	37.2
= OR >0	18.8	30.6	36.8	39.9	42.6	44.4	48.9	50.1
TOTAL	172	281	337	366	391	407	448	459

TOTAL NUMBER OF OBS: 917

PCT FREQ NM <5/8: 49.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

n	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
18.6	9.2	9.3	7.2	5.0	4.9	7.0	6.8	20.8	11.6	953

PERIOD: (PRIMARY) 1944-1970
(OVER-ALL) 1887-1970

AUGUST

AREA 0006 CABOT STRAIT
46.6N 98.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.1	.1	.3	.3	.3	.1	.0	.0	.0	1.2	
	NO PCP	.0	.4	.7	.8	1.9	2.9	1.0	.2	.0	.3	7.5	
	TOT %	*	.5	.8	1.0	2.2	2.4	1.0	.2	.0	.3	8.7	
1/2<1	PCP	.0	.1	.1	.4	.1	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.1	.6	.3	.6	.5	.4	.2	.0	.3	2.9	
	TOT %	.0	.2	.6	.6	.7	.5	.4	.2	.0	.3	3.5	
1<2	PCP	.1	.0	.3	.2	.4	.3	.1	*	.0	.0	1.3	
	NO PCP	.0	.0	.3	.2	.3	.6	.3	.2	.0	.2	2.1	
	TOT %	.1	.0	.3	.4	.7	.9	.4	.2	.0	.2	3.4	
2<5	PCP	.2	.3	.2	.2	.3	.5	.1	.0	.0	.0	1.8	
	NO PCP	.3	.1	.3	.7	1.3	1.7	.6	.4	.0	.0	4.9	
	TOT %	.5	.4	.5	.9	1.6	1.7	.7	.4	.0	.0	6.7	
5<10	PCP	.1	.3	.4	.8	.8	.5	.2	.3	.0	.0	3.2	
	NO PCP	1.3	1.2	1.2	3.1	4.0	6.4	4.6	2.8	.0	.3	25.0	
	TOT %	1.3	1.5	1.6	3.9	4.8	7.1	4.7	3.0	.0	.3	28.2	
10+	PCP	.1	.1	.0	.2	.1	*	.3	.3	.0	.0	1.1	
	NO PCP	4.1	2.3	2.9	2.8	7.7	9.2	9.0	9.2	.0	1.4	48.5	
	TOT %	4.2	2.3	2.9	2.9	7.8	9.2	9.3	9.4	.0	1.4	49.6	
TOT OBS													1200
TOT PCT		6.3	4.8	7.0	9.8	17.8	21.9	16.6	13.5	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.1	*	.1	*	.2	.0	.0	.3	.8	
	4-10	*	.2	.2	.4	1.5	1.2	.3	.2	.0	.0	4.0	
	11-21	.0	.1	.3	.5	.8	.9	.3	.0	.0	.0	3.2	
	22+	.0	*	.1	.1	*	.3	.2	.0	.0	.0	.7	
	TOT %	*	.4	.8	1.0	2.5	2.5	1.0	.2	.0	.3	8.8	
1/2<1	0-3	.0	.0	.0	.2	.0	.0	*	*	.0	.2	.5	
	4-10	.0	.2	.1	.1	.2	.3	.1	.2	.0	.0	1.1	
	11-21	.0	.0	.3	.3	.4	.2	.2	.0	.0	.0	1.4	
	22+	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.2	.6	.6	.7	.5	.4	.2	.0	.2	3.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.1	.0	.2	.1	.0	.3	.2	*	.0	.0	1.0	
	11-21	.0	.0	.1	*	.4	.5	.2	.2	.0	.0	1.4	
	22+	.0	.0	.2	.3	.3	.1	.0	.0	.0	.0	.9	
	TOT %	.1	.0	.5	.4	.7	.9	.3	.2	.0	.2	3.4	
2<5	0-3	.1	*	.0	.0	*	.1	.1	.0	.0	.0	.3	
	4-10	.1	.1	.1	.3	.6	.3	.4	*	.0	.0	1.9	
	11-21	.3	.2	.2	.3	.6	1.0	.1	.3	.0	.0	3.0	
	22+	.1	.1	.2	.3	.2	.2	.1	.1	.0	.0	1.3	
	TOT %	.5	.4	.5	.9	1.5	1.7	.7	.4	.0	.0	6.5	
5<10	0-3	.1	.0	.1	.3	*	.3	.3	*	.0	.2	1.3	
	4-10	.5	.4	.6	1.0	1.4	2.5	2.2	1.4	.0	.0	10.1	
	11-21	.5	1.0	.6	1.8	2.7	3.4	1.6	1.0	.0	.0	12.6	
	22+	.2	.1	.3	.6	.5	.9	.4	.3	.0	.0	3.4	
	TOT %	1.3	1.4	1.5	3.7	4.6	7.0	4.6	2.9	.0	.2	27.4	
10+	0-3	.4	.2	.4	.4	.5	.6	.3	.3	.0	1.4	4.5	
	4-10	1.3	1.3	.9	1.2	3.2	3.3	3.3	3.1	.0	.0	17.9	
	11-21	2.0	1.1	1.4	1.0	3.4	4.4	4.8	5.1	.0	.0	23.3	
	22+	.5	.1	.3	.3	.6	1.1	.9	.9	.0	.0	4.9	
	TOT %	4.2	2.7	3.2	3.0	7.7	9.6	9.3	9.4	.0	1.4	50.6	
TOT OBS													1242
TOT PCT		6.2	5.1	7.1	9.6	17.5	22.2	16.3	13.3	.0	2.4	100.0	

AUGUST

PERIOD: (PRIMARY) 1944-1970
(OVER-ALL) 1887-1970AREA 0006 CABOT STRAIT
46.6N 58.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	11.9	1.5	1.0	7.4	11.4	6.4	3.5	.5	1.5	1.5	46.5	53.5	202
06009	9.9	.5	1.5	5.4	14.4	6.4	2.0	.0	2.5	3.5	46.0	54.0	202
12015	15.2	.3	1.0	3.8	10.7	6.9	3.1	7.6	6.9	.3	55.9	44.1	290
18021	12.7	.4	3.0	5.9	9.7	8.4	1.7	2.1	.6	2.1	46.8	53.2	237
TOT	118	6	15	51	106	66	24	28	30	16	460	471	931
PCT	12.7	.6	1.6	5.5	11.4	7.1	2.6	3.0	3.2	1.7	49.4	50.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	9.4	3.2	1.1	5.0	33.5	47.8	278
06009	11.1	3.2	2.0	5.6	26.6	51.6	292
12015	7.3	5.2	5.0	7.3	27.4	47.8	423
18021	7.9	2.3	4.9	7.6	22.1	55.8	303
TOT	109	46	42	82	343	634	1256
PCT	8.7	3.7	3.3	6.5	27.3	50.5	100.0

TABLE 12

CUMULATIVE PCT FRQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	12.1	15.7	26.8	22.7	50.5	198
06009	10.1	13.1	24.2	24.7	51.0	198
12015	15.9	17.6	28.0	29.1	42.9	289
18021	12.9	16.4	29.3	19.8	50.9	232
TOT	120	146	250	224	443	917
PCT	13.1	15.9	27.3	24.4	48.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP °	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.1	.1	.0	.0	2	.3
75/79	.0	.0	.0	.3	.3	.3	.2	.0	8	1.2
70/74	.0	.0	.1	.3	.9	1.3	1.8	1.0	37	5.5
65/69	.0	.0	.0	.1	1.0	3.8	5.5	8.6	129	19.1
60/64	.0	.0	.0	.0	1.2	5.8	16.4	20.2	295	43.6
55/59	.0	.0	.0	.1	1.5	9.9	7.2	11.1	175	25.8
50/54	.0	.0	.0	.1	.4	1.0	1.2	1.6	30	4.4
45/49	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	1	7	37	124	220	288	677	100.0
PCT	.0	.0	.1	1.0	5.5	18.3	32.5	42.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80	.0	.0	.0	.0	.3	.6	.0	.0	.0	.0
75	.0	.0	.0	.0	.3	.6	.1	.2	.0	.0
70	.0	.0	.3	.2	1.4	2.1	.7	.7	.0	.3
65	1.0	.5	.4	2.4	5.0	6.0	2.4	1.2	.0	.1
60	.9	2.5	3.1	4.2	7.6	11.6	6.9	6.4	.0	.3
55	2.7	1.3	2.0	2.0	3.9	3.3	4.8	4.9	.0	.9
50	.6	.9	.4	.0	.2	.1	1.3	.9	.0	.0
45	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
TOT	5.5	5.4	6.3	8.8	18.7	23.7	15.7	14.3	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	82	74	69	61	55	52	50	61.7	319
06009	88	67	65	60	55	58	35	59.7	274
12015	79	71	69	62	55	52	49	62.1	449
18021	80	78	72	63	56	52	51	68.5	325
TOT	82	74	70	62	55	51	35	61.9	1367

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.1	3.4	17.5	28.2	49.7	88	177		
06009	.0	.0	2.6	13.8	35.5	46.1	88	152		
12015	.0	2.6	5.3	18.0	33.3	40.7	86	189		
18021	.0	.6	10.3	21.8	32.7	34.5	84	165		
TOT	0	8	37	125	221	292	87	683		

AUGUST

PERIOD: (PRIMARY) 1944-1970
(OVER-ALL) 1987-1970

TABLE 17

AREA 0006 CABOT STRAIT
46.6N 58.3WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
23/25	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
20/22	.0	.0	.0	.1	.1	.0	.0	.0	.0	2	.0	.2
17/19	.0	.0	.1	.0	.0	.0	.1	.0	.1	3	.0	.4
14/16	.0	.0	.0	.0	.1	.1	.2	.1	.0	5	.0	.6
11/13	.0	.0	.0	.0	.5	.1	.5	.1	.0	10	.2	.9
9/10	.0	.0	.0	.6	.2	.4	.6	.2	.0	17	.2	1.8
7/4	.0	.0	.8	1.6	1.5	1.1	.2	.0	.0	49	.7	4.6
6	.0	.0	.5	1.2	.9	.9	.2	.0	.0	32	.7	3.1
5	.0	.1	.4	3.1	1.4	.9	.1	.1	.0	52	1.1	5.1
4	.0	.2	1.4	3.2	2.1	.8	.1	.0	.0	67	1.4	6.5
3	.0	.2	3.2	3.8	2.5	.4	.0	.0	.0	85	2.5	7.5
2	.0	.9	4.1	4.8	2.8	.5	.0	.0	.0	112	1.5	11.6
1	.0	.7	3.6	3.8	1.9	.1	.0	.0	.0	86	2.0	8.1
0	.0	.9	5.1	4.3	1.4	.0	.0	.0	.0	100	1.6	10.1
-1	.0	1.2	4.1	2.7	.6	.0	.0	.0	.0	73	.4	8.2
-2	.6	1.1	2.9	2.2	.7	.0	.0	.0	.0	64	.7	6.8
-3	.1	.9	2.7	.9	.0	.0	.0	.0	.0	40	.6	4.1
-4	.2	.7	.8	.7	.0	.0	.0	.0	.0	21	.1	2.4
-5	.2	.4	.9	.4	.0	.0	.0	.0	.0	16	.1	1.8
-6	.1	.8	.5	.0	.0	.0	.0	.0	.0	12	.1	1.3
-7/-8	.1	.2	.2	.1	.0	.0	.0	.0	.0	6	.1	.6
-9/-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-11/-13	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.1	.0
TOTAL	14		267		144		18		1	851	121	730
PCT	1.6	8.5	31.4	33.5	10.9	5.9	2.1	.6	.1	100.0	14.2	85.8

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.3	.0	.0	.0	.0	.7	.0	.5	.0	.0	.0	.0	.5
1-2	.0	1.1	.4	.0	.0	.0	1.5	.4	.3	.0	.0	.0	.0	.7
3-4	.0	1.2	1.7	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.3	3.8	.0	.0	.0	6.8	.4	.8	1.3	.0	.0	.0	2.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.3	.0	.0	.0	.0	.6	.5	.5	.0	.0	.0	.0	1.1
1-2	.3	1.0	.3	.0	.0	.0	1.6	.1	1.6	.1	.0	.0	.0	1.8
3-4	.0	.4	.4	.0	.0	.0	.8	.0	.6	.5	.4	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.4	.0	.0	2.6
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.4	.3	.0	.0	.7	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.4	.4	.0	.8
12	.0	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.7	1.5	.3	1.1	.0	3.2	.6	2.8	3.9	1.9	.6	.0	9.9

PERIOD: (OVER-ALL) 1963-1970

AUGUST

AREA 0006 CABOT STRAIT
46.6N 58.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.8	1.9	.0	.0	.0	.0		2.8	.4	.6	.0	.0	.0	.0		1.1
1-2	.4	2.1	2.3	.0	.0	.0		4.9	.1	3.0	4.9	.0	.0	.0		7.9
3-4	.0	2.6	4.6	.0	.0	.0		7.2	.4	1.6	3.7	.4	.0	.0		6.1
5-6	.0	.4	3.6	.0	.0	.0		4.0	.0	.4	3.1	.4	.0	.0		3.9
7	.0	.3	1.1	.0	.0	.0		1.4	.0	.1	.5	.8	.0	.0		1.5
8-9	.0	.0	.8	.3	.0	.0		1.2	.0	.0	.4	.4	.0	.0		.8
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.4	.0	.0		.4
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.4	.0	.0	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.3	7.8	12.4	.3	.0	.0		21.8	1.0	5.7	12.6	2.5	.0	.0		21.8

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	1.5	.0	.0	.0	.0		1.5	.0	.6	.0	.0	.0	.0		.6	
1-2	.7	2.9	1.7	.0	.0	.0		5.3	.0	1.7	1.3	.0	.0	.0		3.0	
3-4	.0	1.1	4.7	.3	.0	.0		6.0	.0	1.4	3.9	.1	.0	.0		5.4	
5-6	.0	.0	2.1	.0	.0	.0		2.1	.0	.0	3.4	.0	.0	.0		3.4	
7	.0	.0	.4	.0	.0	.0		.4	.0	.0	.0	.4	.0	.0		.4	
8-9	.0	.0	.8	.4	.0	.0		1.3	.0	.0	.0	.0	.0	.0		.4	
10-11	.0	.0	.3	.0	.0	.0		.3	.0	.0	.1	.0	.0	.0		.1	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.4	.0	.0		.4	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.7	5.4	10.1	.7	.0	.0		16.9	.0	3.7	8.7	1.0	.0	.0		13.3	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.6	6.3	.0	.0	.0	.0	11.0	
1-2	2.1	13.5	11.0	.0	.0	.0	26.6	
3-4	.4	8.9	19.4	1.3	.0	.0	30.0	
5-6	.0	.8	15.6	.8	.0	.0	17.3	
7	.0	.4	4.6	1.3	.0	.0	6.3	
8-9	.0	.0	3.0	1.7	.0	.0	4.6	
10-11	.0	.0	.4	.8	.4	.0	1.7	
12	.0	.0	.0	.4	.8	.0	1.3	
13-16	.0	.0	.0	.0	.4	.0	.4	
17-19	.0	.4	.0	.0	.0	.0	.4	
20-22	.0	.0	.0	.4	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.2	30.4	54.0	4.8	1.7	.0	100.0	237

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	12.6	21.2	9.9	2.0	.3	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	296	3
6-7	.2	1.5	7.4	6.9	7.1	2.3	1.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	166	5
8-9	.0	.3	1.7	1.8	1.7	.8	.5	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	7
10-11	.0	.2	.0	.3	.8	.5	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
12-13	.0	.0	.2	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
>13	.0	.0	.0	.0	.0	.2	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	14
INDEX	4.3	2.3	3.1	1.7	.0	.5	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	3
TOTAL	41	102	203	125	71	28	18	7	7	1	2	0	0	0	0	0	0	0	0	603	4
PCT	6.8	16.9	33.6	20.7	11.7	4.6	3.0	1.2	1.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1946-1970
(OVER-ALL) 1860-1970

AREA 0006 CABOT STRAIT
46.7N 58.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.9	1.8	.5	.0	.0	.0	.0	5.3	1.5	.0	2.7	.0	1.1	.0	89.4
NE	3.4	.3	3.0	.0	.0	.0	.0	6.4	2.7	.0	11.7	.0	1.7	.0	77.5
E	13.0	.8	7.9	.0	.0	.0	.0	18.7	1.6	.0	22.8	.0	.0	.0	56.9
SE	13.1	.2	3.6	.0	.0	.0	.0	16.9	2.9	.0	27.1	.0	4.3	.0	48.8
S	9.7	2.0	3.8	.0	.0	.0	.0	12.7	3.1	.0	18.9	.4	3.1	.0	61.7
SW	6.5	3.1	.1	.0	.0	.0	.0	5.7	4.0	.2	11.7	.6	1.5	.0	72.3
W	1.1	1.2	1.3	.0	.0	.0	.0	3.6	1.9	.2	5.1	.3	1.2	.0	87.7
NW	1.6	2.5	.9	.0	.0	.0	.0	5.1	2.2	.4	4.0	.0	.6	.0	87.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7	.0	3.7	.0	.0	.0	.0	7.4	.0	.0	14.8	.0	.0	.0	77.8
TOT PCT	5.2	1.7	2.0	.0	.0	.0	.0	8.5	2.5	.1	10.9	.2	1.5	.0	76.2
TOT OBS:	1372														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	5.5	2.0	.9	.0	.0	.0	.0	8.4	2.0	.3	11.9	.3	1.7	.0	75.6
06009	8.3	1.4	2.9	.0	.0	.0	.0	10.5	5.1	.7	9.4	.0	.7	.0	73.6
12015	5.8	2.6	2.8	.0	.0	.0	.0	10.7	1.5	.0	14.6	.2	1.1	.0	71.9
18021	1.9	.3	1.3	.0	.0	.0	.0	3.5	1.9	.0	8.2	.3	2.5	.0	83.6
TOT PCT	5.3	1.7	2.0	.0	.0	.0	.0	8.5	2.4	.2	11.5	.2	1.5	.0	75.8
TOT OBS:	1404														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	2.9	4.2	1.4	.5	.0		9.3	15.4		9.4	6.7	7.3	8.0	11.3	7.7	12.4	8.4
NE	.7	2.0	2.0	.4	.1	.0		5.2	11.6		4.2	2.8	6.2	4.7	8.0	5.4	4.0	3.6
E	.3	2.3	1.1	.9	.4	.0		7.0	13.3		5.4	5.3	4.5	5.4	7.1	17.9	2.7	6.1
SE	.7	3.3	2.9	1.2	.3	.1		7.9	14.1		8.5	7.5	4.4	9.4	6.4	9.7	10.8	6.6
S	.8	3.6	4.1	2.0	.4	.1		13.0	14.9		14.5	13.1	13.5	16.7	14.5	8.3	12.5	11.1
SW	.6	6.7	7.2	2.2	.2	.0		16.9	13.5		17.3	18.3	19.6	15.6	18.8	14.3	16.4	12.5
W	.2	6.1	8.8	4.3	1.0	.2		20.6	16.9		20.4	24.2	18.6	20.5	17.7	17.1	23.0	31.1
NW	.2	4.4	6.5	4.1	.8	.0		18.1	17.2		19.2	20.0	24.5	18.8	19.7	16.9	16.5	17.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0		1.0	2.2	1.5	.9	2.5	2.8	1.8	2.7
TOT OBS	87	474	638	248	56	6	1509		15.0		286	90	193	112	282	214	220	110
TOT PCT	9.8	31.4	42.3	16.4	3.7	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	1.8	3.7	2.8	.8	.1		9.3	15.4	8.8	7.6	9.7	11.1	
NE	1.7	2.3	1.0	.2	.0		5.2	11.6	3.9	5.6	6.9	3.9	
E	1.4	3.0	2.0	.5	.2		7.0	13.3	5.4	4.8	11.7	3.9	
SE	2.3	3.3	1.2	1.0	.2		7.9	14.1	8.2	6.2	7.8	9.4	
S	2.3	3.8	3.8	.9	.1		13.0	14.9	14.2	14.7	11.8	12.0	
SW	3.0	8.8	4.4	.6	.1		16.9	13.5	17.6	18.2	16.8	15.1	
W	2.5	9.5	5.7	2.4	.5		20.6	16.9	21.3	19.3	17.4	25.7	
NW	1.4	7.6	6.7	2.2	.1		18.1	17.2	19.4	22.4	15.1	16.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.9						1.9	.0	1.3	1.3	2.6	2.1	
TOT OBS	273	666	416	132	20	1509		15.0	376	307	496	330	
TOT PCT	18.2	44.1	27.6	8.7	1.3		100.0		100.0	100.0	100.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1946-1970
(OVER-ALL) 1860-1970

AREA 0006 CABOT STRAIT
46.7N 58.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	1.3	4.0	31.6	46.8	13.0	3.2	.0	14.3	100.0	376
0600	1.3	2.0	30.3	46.3	16.6	2.9	.7	15.3	100.0	307
1200	2.6	6.0	31.7	38.9	15.9	4.2	.6	15.0	100.0	496
1800	2.1	2.1	31.8	38.5	20.9	4.2	.3	15.8	100.0	330
TOT	20	58	474	638	248	56	0	15.0		1509
PCT	1.9	3.8	31.4	42.3	16.4	3.7	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL OBS	MEAN CLOUD COVER
N	3.0	1.4	3.2	2.4		5.7
NE	1.2	.8	1.1	1.9		5.0
E	.8	.3	1.4	4.5		6.0
SE	.3	.2	1.6	5.2		7.2
S	2.3	1.2	2.7	5.7		5.7
SW	5.6	1.5	3.3	6.0		4.8
W	8.7	3.0	5.2	3.8		3.9
NW	7.4	4.3	4.7	3.1		3.9
VAR	.0	.0	.0	.0		.0
CALM	1.2	.2	.1	.7		3.4
TOT OBS	313	134	241	341	1029	4.8
TOT PCT	30.4	13.0	23.4	33.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3999	4999	6499	7999			
N	.3	.0	.3	.7	.8	1.0	.4	.2	.7	.0	5.7	
NE	.7	.0	.2	.2	.4	.6	.2	.0	.0	.0	2.6	
E	1.7	.1	.2	.0	1.0	1.0	.1	.6	.5	.1	1.6	
SE	1.8	.1	.4	1.5	1.2	.6	.1	.2	.4	.0	1.1	
S	1.7	.2	.0	.7	1.4	1.3	.6	.4	.2	.2	5.1	
SW	1.8	.0	.1	.7	1.8	.9	.4	.5	.7	.2	9.2	
W	1.0	.1	.0	.7	1.9	1.5	.6	.3	.9	.5	13.3	
NW	.6	.0	.1	.9	1.3	1.3	.8	.5	.6	.3	13.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.0	.1	.4	.0	.1	.1	.0	1.4	
TOT OBS	100	14	55	103	89	34	29	43	13	544	1029	
TOT PCT	9.7	.5	1.4	5.3	10.0	8.6	3.3	2.8	4.2	1.3	52.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	3.7	5.2	5.3	5.3	5.3	5.3	5.3	5.3
>5000	5.3	7.5	8.1	8.1	8.1	8.1	8.1	8.1
>3500	8.0	10.9	11.4	11.4	11.4	11.4	11.4	11.4
>2000	13.3	19.1	19.7	19.7	19.8	19.8	19.8	19.8
>1000	19.2	27.4	29.4	29.5	29.6	29.6	29.7	29.8
>600	22.0	32.1	34.4	34.5	35.0	35.0	35.1	35.2
>300	22.5	33.2	36.0	36.1	36.6	36.6	36.7	36.8
>150	22.5	33.3	36.3	36.4	37.0	37.0	37.1	37.2
>0	22.6	33.8	37.1	39.2	41.7	42.7	45.7	47.3
TOTAL	231	346	380	401	427	437	467	484

TOTAL NUMBER OF OBS: 1023

PCT FREQ NH <5/8: 52.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	19.3	9.9	10.4	6.8	5.8	5.4	7.0	8.9	17.2	9.3	1084

PERIOD: (PRIMARY) 1946-1970
(OVER-ALL) 1800-1970

SEPTEMBER

AREA 0000 CABOT STRAIT
46.7N 58.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.2	.1	*	.0	.0	.4	
	ND PCP	.2	.4	.1	1.0	1.2	1.1	.6	.3	.0	.1	5.0	
	TOT %	.2	.4	.1	1.0	1.2	1.3	.7	.3	.0	.1	5.4	
1/2<1	PCP	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.4	
	ND PCP	*	.1	.6	.3	.6	.4	.2	*	.0	.0	2.3	
	TOT %	*	.1	.6	.4	.8	.5	.2	*	.0	.0	2.7	
1<2	PCP	.1	*	.2	.2	.2	.1	.0	*	.0	.0	.8	
	ND PCP	.0	.0	.6	.2	.2	.1	.1	.2	.0	.0	1.4	
	TOT %	.1	*	.8	.4	.4	.2	.1	.2	.0	.0	2.2	
2<5	PCP	.2	.1	.5	.4	.4	.4	.1	*	.0	.0	2.2	
	ND PCP	.1	*	.2	.6	.7	.4	.3	.1	.0	.1	2.5	
	TOT %	.3	.1	.7	1.0	1.1	.9	.3	.2	.0	.1	4.7	
5<10	PCP	.9	.2	.2	.5	.8	.8	.5	.4	.0	.1	3.8	
	ND PCP	2.0	1.4	1.4	1.3	2.4	4.2	5.3	4.3	.0	.2	22.5	
	TOT %	2.9	1.6	1.6	1.8	3.2	4.9	5.7	4.7	.0	.4	26.3	
10+	PCP	.0	.0	.3	.1	.0	.0	.1	.4	.0	.0	.9	
	ND PCP	7.2	3.1	2.5	2.9	6.0	8.5	14.0	12.1	.0	1.4	57.8	
	TOT %	7.2	3.1	2.8	3.0	6.0	8.5	14.1	12.5	.0	1.4	58.7	
TOT OBS													1371
TOT PCT		10.0	5.4	6.7	7.6	12.8	16.3	21.2	18.0	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.4	.1	.1	.1	*	.0	.1	.8	
	4-10	.1	.4	.1	.4	.6	.6	.5	.1	.0		2.7	
	11-21	.1	.1	.0	.2	.4	.6	.2	.1	.0		1.6	
	22+	.0	.0	.1	.0	.1	.1	.0	.0	.0		.3	
	TOT %	.2	.4	.2	.9	1.3	1.3	.8	.3	.0	.1	5.5	
1/2<1	0-3	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	.0	.1	.2	.3	.4	.1	.2	*	.0		1.2	
	11-21	.0	.0	.3	.1	.1	.3	*	.0	.0		.8	
	22+	*	*	.0	.0	.3	.1	.0	.0	.0		.4	
	TOT %	*	.1	.6	.4	.8	.5	.2	*	.0	.0	2.6	
1<2	0-3	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	.0	.0	.2	.3	.1	.0	.0	.1	.0		.8	
	11-21	.1	*	.2	.1	.0	.1	.1	.1	.0		.6	
	22+	.0	.0	.3	.2	.3	*	.0	.0	.0		.8	
	TOT %	.1	*	.7	.5	.4	.2	.1	.2	.0	.0	2.2	
2<5	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.2	.4	.1	.4	.1	.1	.0		1.3	
	11-21	.1	*	.4	.2	.5	.1	.1	.1	.0		1.5	
	22+	.2	.1	.1	.3	.4	.3	.2	.1	.0		1.6	
	TOT %	.2	.1	.7	1.0	1.1	.8	.3	.2	.0	.1	4.6	
5<10	0-3	.1	.4	.1	.1	.3	.2	.0	.0	.0	.4	1.5	
	4-10	.7	.4	.6	.5	.9	1.6	1.5	1.3	.0		7.5	
	11-21	1.1	.7	.6	.6	1.3	2.2	2.0	1.7	.0		10.3	
	22+	.3	.1	.2	.5	.6	.9	2.1	1.6	.0		6.4	
	TOT %	2.2	1.6	1.7	1.8	3.1	4.9	5.6	4.6	.0	.4	25.8	
10+	0-3	.2	.3	.1	.1	.4	.2	.1	.1	.0	1.3	2.8	
	4-10	2.3	1.1	.8	1.4	1.5	4.1	4.0	3.0	.0		18.2	
	11-21	3.1	1.3	1.3	1.0	3.6	4.0	6.6	6.4	.0		27.3	
	22+	1.4	.3	.6	.4	.7	1.1	3.5	2.9	.0		11.0	
	TOT %	7.0	3.0	2.7	2.9	6.3	9.4	14.2	12.4	.0	1.3	59.3	
TOT OBS													1423
TOT PCT		9.7	5.2	6.7	7.6	12.9	17.0	21.1	17.8	.0	1.9	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1946-1970
(OVER-ALL) 1860-1970

AREA 0006 CABOT STRAIT
46.7N 58.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	190 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	9.7	1.3	2.5	3.8	7.6	10.6	3.0	.8	1.7	1.7	42.8	57.2	236
06009	10.8	.0	.9	5.6	9.9	9.1	3.0	.0	3.0	1.3	43.5	56.5	232
12015	12.8	.6	1.2	5.5	9.6	6.1	2.0	7.0	7.6	.3	52.6	47.4	344
18021	6.0	.0	1.6	5.6	11.7	8.9	5.2	1.2	2.4	2.0	44.8	55.2	248
TOT	107	5	16	55	103	89	14	29	43	13	494	586	1060
PCT	10.1	.5	1.5	5.2	9.7	8.4	3.2	2.7	4.1	1.2	46.6	53.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	8.8	1.7	.3	3.9	30.4	55.0	362
06009	5.5	1.7	3.1	4.5	23.8	61.4	290
12015	4.9	5.3	4.0	6.6	24.3	59.0	473
18021	5.5	.9	.9	2.1	24.8	65.8	330
TOT	89	39	32	65	376	854	1455
PCT	6.1	2.7	2.2	4.5	25.8	58.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	10.2	13.5	19.9	24.8	55.3	226
06009	10.0	11.9	19.2	26.0	54.8	219
12015	12.7	19.7	26.9	28.1	45.0	338
18021	6.7	8.8	16.3	30.0	53.8	240
TOT	104	135	217	280	526	1023
PCT	10.2	13.2	21.2	27.4	51.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.1	.1	.0	.4	5	.6
65/69	.0	.0	.0	.0	.2	.6	1.5	2.1	36	4.4
60/64	.0	.0	.1	.1	1.2	3.1	8.2	10.6	190	23.4
55/59	.0	.0	.1	.7	2.8	8.5	12.9	11.9	301	37.0
50/54	.0	.0	.1	1.2	4.2	7.3	7.4	7.1	222	27.3
45/49	.0	.0	.0	.5	1.0	2.1	1.4	1.8	55	6.8
40/44	.0	.0	.0	.0	.1	.1	.2	.0	4	.5
TOTAL	0	0	3	21	79	177	257	276	813	100.0
PCT	.0	.0	.4	2.6	9.7	21.8	31.6	33.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.1	.0	.2	.2	.1	.0	.0	.0	.0
65/69	.5	.2	.1	.5	1.5	1.2	.1	.2	.0	.1
60/64	2.0	.9	.6	2.2	5.4	6.9	3.1	2.2	.0	.2
55/59	3.6	2.2	2.1	3.3	4.4	5.6	8.7	7.0	.0	.1
50/54	3.4	2.1	1.4	1.8	1.5	2.5	7.6	6.4	.0	.6
45/49	.8	.4	.2	.3	.2	.3	2.2	1.9	.0	.5
40/44	.1	.1	.1	.0	.0	.0	.1	.0	.0	.0
TOTAL	10.5	6.1	4.4	8.2	13.2	16.5	21.8	17.6	.0	1.6

TABLE 15

MEAN, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	71	68	64	56	48	43	43	56.3	385
06009	76	66	63	56	47	34	34	55.4	315
12015	73	70	64	57	49	43	44	57.1	497
18021	74	70	65	57	50	47	46	57.4	337
TOT	76	68	64	57	48	45	34	56.6	1534

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.7	10.3	21.0	32.2	34.8	84	233		
06009	.0	3.0	5.6	22.8	28.4	40.1	85	197		
12015	.0	1.5	9.8	16.6	34.6	37.6	85	205		
18021	.0	5.7	12.5	26.0	29.2	26.6	81	192		
TOT	0	24	79	178	258	288	84	827		

SEPTEMBER

PERIOD: (PRIMARY) 1946-1970
(OVER-ALL) 1860-1970

TABLE 17

AREA 0006 CAROT STRAIT
46.7N 58.4WPCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
14/16	.0	.0	.0	.0	.3	.0	.0	.0	.0	.1	4	.1	.3
11/13	.0	.0	.0	.0	.0	.2	.0	.4	.0	.0	6	.0	.6
9/10	.0	.0	.0	.0	.3	.3	.5	.1	.1	.0	13	.3	.9
7/8	.0	.0	.0	.2	.9	.8	.9	.8	.1	.0	98	.6	3.0
6	.0	.0	.0	.3	.9	.9	.6	.4	.0	.0	33	.5	2.7
5	.0	.0	.1	.0	.9	2.1	1.9	.4	.1	.0	58	.8	4.7
4	.0	.0	.2	.2	.7	2.0	2.4	.3	.0	.0	60	.6	5.1
3	.0	.0	.3	.4	1.7	2.9	1.7	.5	.0	.0	79	1.0	6.4
2	.1	.0	.0	.5	2.4	2.2	3.3	.2	.0	.0	91	1.6	7.0
1	.0	.0	.2	.7	2.7	4.9	2.8	.2	.0	.0	121	1.1	10.3
0	.0	.0	.3	1.3	3.9	4.0	1.1	.1	.0	.0	113	1.2	9.5
-1	.0	.0	.1	1.6	3.7	2.8	.9	.0	.0	.0	97	.4	8.8
-2	.0	.0	.7	1.6	3.2	2.0	.9	.0	.0	.0	88	1.2	7.1
-3	.0	.0	.4	1.8	2.9	1.4	.1	.0	.0	.0	70	.4	6.3
-4	.0	.0	.6	1.1	2.8	1.0	.2	.0	.0	.0	61	.4	5.4
-5	.0	.1	.4	1.5	1.5	.7	.0	.0	.0	.0	44	.1	4.1
-6	.0	.1	.5	1.1	.7	.2	.0	.0	.0	.0	27	.0	2.6
-7/-8	.0	.1	.4	1.0	.6	.1	.0	.0	.0	.0	23	.0	2.2
-9/-10	.0	.4	.2	.4	.6	.1	.0	.0	.0	.0	17	.0	1.6
-11/-13	.0	.0	.2	.2	.3	.0	.0	.0	.0	.0	7	.0	.7
-14/-16	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	3	.0	.3
-17/-19	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	7	47	148	326	304	183	34	1	1055	108	947	
PCT	.2	.7	4.5	14.0	30.9	28.8	17.3	3.2	.3	.1	100.0	10.2	89.8

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	1.0	.0	.0	.0	.0	1.0	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	1.8	2.8	.6	.0	.0	5.3	.4	.8	1.1	.0	.0	.0	2.2
5-6	.0	.0	1.1	1.8	.0	.0	3.0	.0	.0	.7	.4	.0	.0	1.1
7	.0	.0	1.3	.7	.4	.0	2.4	.0	.0	.1	.4	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	5.3	3.2	.4	.0	12.5	.4	3.0	1.8	.7	.0	.0	5.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.7	.0	.0	.0	.0	.7	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	.5	.0	.0	.0	.0	.5	.4	2.0	.8	.0	.0	.0	3.2
3-4	.0	.0	.7	.0	.0	.0	.7	.0	.7	1.1	.1	.0	.0	1.9
5-6	.0	.0	1.2	.3	.0	.0	1.5	.0	.4	.2	.1	.0	.0	.6
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4
13-16	.0	.0	.0	.5	.3	.0	.8	.0	.0	.0	1.2	.1	.0	1.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	2.2	1.5	.3	.0	5.2	.4	4.1	2.6	2.8	.1	.0	10.1

PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER

AREA 0006 CABOT STRAIT
46.7N 58.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	1.1	.2	.0	.0	.0	1.2
1-2	.3	2.0	1.6	.0	.0	.0	3.9	.0	2.1	1.2	.0	.0	.0	3.3
3-4	.0	1.5	3.2	.9	.0	.0	5.6	.0	1.8	1.7	.4	.0	.0	3.9
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.4	1.1	.4	.0	.0	2.0
7	.0	.0	.9	.0	.0	.0	.9	.0	.0	.5	.4	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.6	6.3	.9	.0	.0	12.0	.0	5.4	5.1	2.4	.0	.0	12.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.9	.0	.0	.0	1.1	.0	.9	.0	.0	.0	.0	.9	
1-2	.0	1.9	1.8	.0	.0	.0	3.8	.0	1.6	1.6	.0	.0	.0	3.2	
3-4	.0	2.5	3.9	.7	.0	.0	7.2	.0	1.3	5.4	1.5	.0	.0	8.2	
5-6	.0	.3	1.7	1.0	.4	.0	3.2	.0	.0	2.1	.3	.0	.0	2.4	
7	.0	.0	.3	.6	.0	.0	.9	.0	.4	1.4	1.1	.4	.0	3.2	
8-9	.0	.0	.4	1.2	.0	.0	1.6	.0	.0	.4	.8	.4	.0	1.5	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	5.0	8.9	3.5	.4	.0	17.8	.0	4.1	10.9	5.8	.7	.0	21.5	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.1	7.0	1.0	.0	.0	.0	10.1	
1-2	1.0	12.2	7.0	.0	.0	.0	20.3	
3-4	.3	10.5	19.9	4.2	.0	.0	35.0	
5-6	.0	1.0	8.7	4.2	.3	.0	14.3	
7	.0	.3	4.9	4.1	.7	.0	9.1	
8-9	.0	.0	.7	2.8	.3	.0	3.8	
10-11	.0	.0	.7	2.1	.0	.0	2.8	
12	.0	.0	.0	2.1	.0	.0	2.1	
13-16	.0	.0	.0	2.1	.3	.0	2.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.5	31.1	43.0	20.6	1.7	.0	100.0	286

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	11.0	19.1	9.1	3.0	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	286	3
6-7	.2	.8	8.8	6.5	5.8	3.6	1.6	.8	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	181	6
8-9	.0	.3	.8	1.4	3.0	.5	1.3	1.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	8
10-11	.0	.0	.6	.6	.8	.2	.5	.3	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	22	8
12-13	.0	.0	.3	.0	.5	.6	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
>13	.0	.0	.0	.2	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	11
INDEX	2.2	2.2	3.1	1.1	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	3
TOTAL	28	91	208	120	91	37	26	19	12	2	0	0	1	0	0	0	0	0	0	635	5
PCT	4.4	14.3	32.8	18.9	14.3	5.8	4.1	3.0	1.9	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1951-1970
(OVER-ALL) 1886-1970

OCTOBER

AREA 0008 CABOT STRAIT
46.6N 58.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.1	1.2	.0	.0	1.1	.0	.0	5.9	1.5	.0	2.3	.0	.0	.0	90.3
NE	18.9	1.7	1.2	.0	1.4	.0	.0	22.6	.7	.0	2.1	.0	.0	.0	74.5
E	15.0	2.2	8.5	.0	.7	.0	.0	24.7	3.2	.0	18.0	.0	.7	.0	53.4
SE	20.1	1.3	4.5	.0	.9	.0	.0	25.8	3.0	.4	17.5	.0	2.4	.0	49.9
S	9.0	1.8	2.8	.0	.0	.0	.0	13.6	1.9	.8	10.7	.0	1.4	.0	71.6
SW	4.1	2.0	.9	.0	.0	.0	.0	7.0	1.9	.0	9.3	.6	2.0	.5	78.9
W	2.3	2.6	.4	.0	1.2	.0	.2	6.7	4.4	.0	3.2	.7	2.4	.0	82.7
NW	2.4	2.9	1.6	.0	1.6	.0	.2	8.7	2.5	.0	1.8	.0	1.1	.0	85.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.1	.0	3.7	.0	.0	.0	.0	14.8	.0	.0	29.6	.0	3.7	.0	51.9
TOT PCT	7.4	2.0	2.0	.0	.8	.0	.1	12.1	2.5	.1	7.3	.2	1.4	.1	76.2
TOT OBS:	1417														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	7.3	.6	1.2	.0	.6	.0	.3	9.8	2.1	.3	8.0	.3	.6	.0	78.9
06009	9.1	1.8	3.6	.0	1.8	.0	.0	16.4	2.2	.4	4.4	.7	.7	.0	75.2
12015	7.1	3.4	1.9	.0	.2	.0	.0	12.6	1.9	.0	8.8	.2	1.7	.0	74.8
18021	6.9	1.6	1.8	.0	1.1	.0	.0	10.8	3.4	.0	7.7	.0	2.1	.3	75.7
TOT PCT	7.5	2.0	2.1	.0	.8	.0	.1	12.2	2.4	.1	7.5	.3	1.4	.1	76.0
TOT OBS:	1456														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	2.1	4.8	3.6	.7	.0		11.6	18.9		11.7	13.0	9.7	15.9	12.2	12.9	10.3	11.3
NE	.4	1.9	2.4	2.3	.5	.0		7.5	18.0		5.9	5.7	8.3	18.1	9.5	6.2	5.1	7.5
E	.1	1.8	3.2	1.5	.4	.1		7.1	17.4		5.3	16.3	6.1	3.6	7.4	10.8	5.4	7.2
SE	.3	2.7	2.5	2.0	.5	.1		8.1	17.4		10.2	7.3	6.9	5.8	7.8	7.8	8.5	7.2
S	.8	3.5	9.9	2.0	.6	.1		12.9	15.3		12.0	12.0	17.1	14.1	10.6	11.9	15.2	7.2
SW	.9	4.8	6.5	2.6	.2	.0		15.1	14.3		15.6	17.0	16.1	15.6	16.6	13.6	13.8	10.0
W	.6	4.6	7.3	4.4	.9	.2		18.0	17.7		18.1	14.0	18.3	15.9	17.7	18.2	18.8	20.3
NW	.8	4.5	7.7	3.9	.9	.1		17.9	17.1		18.4	14.7	15.9	10.9	16.0	16.8	20.9	29.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0		2.7	.0	1.8	.0	2.1	1.7	1.9	.0
TOT OBS	98	404	429	349	73	9	1562		16.5		295	75	227	69	329	174	313	80
TOT PCT	6.3	25.9	40.3	22.3	4.7	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	.9	3.6	4.7	2.3	.0		11.6	18.9	12.0	11.1	12.4	10.5	
NE	1.3	2.0	2.6	1.4	.2		7.5	18.0	5.9	10.6	8.3	5.6	
E	.9	3.0	2.2	.7	.2		7.1	17.4	7.6	5.5	8.6	5.8	
SE	1.0	3.4	2.3	1.2	.2		8.1	17.4	9.6	6.7	7.8	8.2	
S	2.3	5.6	3.9	1.0	.1		12.9	15.3	12.0	16.4	11.0	13.5	
SW	2.8	6.6	5.0	.7	.*		15.1	14.3	15.9	18.0	15.6	13.0	
W	2.5	6.3	6.3	2.5	.4		18.0	17.7	17.3	17.7	17.9	19.1	
NW	2.4	6.6	6.2	2.5	.3		17.9	17.1	17.6	14.7	16.3	22.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.8						1.8	.0	2.2	1.4	2.0	1.5	
TOT OBS	147	579	519	194	23	1562		16.5	270	296	303	393	
TOT PCT	15.3	37.1	33.2	12.4	1.5		100.0		100.0	100.0	100.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1951-1970
(OVER-ALL) 1886-1970

AREA 0006 CABOT STRAIT
46.0N 58.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	2.2	4.6	28.6	41.1	20.0	3.2	.3	15.5	100.0	370
0600	1.4	2.7	27.0	40.9	22.6	5.1	.3	16.6	100.0	296
1200	2.0	5.0	23.9	39.6	22.5	6.2	1.0	17.2	100.0	503
1800	1.5	5.1	24.9	39.9	24.2	3.8	.5	16.7	100.0	393
TOT	28	70	404	629	349	73	9	16.5		1562
PCT	1.8	4.5	25.9	40.3	22.3	4.7	.6	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	1.2	3.7	3.7		5.3
NE	.7	.5	1.7	3.1		6.3
E	.5	.5	1.0	4.6		6.9
SE	1.2	.6	1.3	5.7		6.5
S	3.1	1.3	2.7	7.1		5.7
SW	5.0	1.7	3.2	4.5		4.5
W	4.9	3.0	6.2	4.9		4.8
NW	4.0	2.6	6.0	5.5		5.2
VAR	.0	.0	.0	.0		.0
CALM	.3	.1	.1	1.3		6.3
TOT OBS	239	124	281	437	1081	5.4
TOT PCT	22.1	11.5	26.0	40.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH $\geq 4/8$
AND OCCURRENCE OF NH $\leq 5/8$ BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH $\leq 5/8$ ANY HGT	TOTAL OBS
N	149	299	599	999	1999	3499	4999	6499	7999			
NE	.1	.0	.0	.9	2.3	1.5	.4	.3	.4	.4	4.7	
E	.3	.1	.0	1.0	1.2	.9	.4	.1	.2	.0	1.6	
SE	1.0	.1	.3	.5	1.1	1.3	.1	.2	.5	.0	1.5	
S	1.9	.1	.2	1.1	1.4	.8	.3	.0	.1	.0	3.0	
SW	1.6	.0	.1	.8	1.8	1.9	.3	.3	.5	.6	6.3	
W	.9	.0	.0	.8	1.4	1.0	.7	.3	.3	.4	8.6	
NW	.3	.1	.4	.7	3.0	3.0	.5	.4	.7	.3	9.8	
VAR	.2	.1	.2	.9	2.6	3.1	.6	.3	.8	.4	9.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	77	4	12	73	163	148	36	20	39	23	483	1081
TOT PCT	7.1	.5	1.1	6.8	15.1	13.7	3.3	1.9	3.6	2.1	44.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH $\geq 4/8$) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	≥ 10	≥ 5	≥ 2	≥ 1	$\geq 1/2$	$\geq 1/4$	≥ 50 VD	≥ 0
≥ 6500	3.7	4.9	5.6	5.6	5.6	5.7	5.7	5.7
≥ 5000	5.0	6.5	7.3	7.4	7.4	7.6	7.6	7.6
≥ 3500	7.6	9.8	10.7	10.8	10.8	10.9	10.9	10.9
≥ 2000	15.6	22.3	24.2	24.3	24.3	24.5	24.5	24.5
≥ 1000	24.2	34.9	38.4	39.0	39.1	39.4	39.5	39.5
≥ 600	27.3	40.1	45.0	45.7	45.9	46.3	46.4	46.4
≥ 300	27.7	40.9	46.0	46.8	47.0	47.4	47.4	47.4
≥ 150	27.9	41.2	46.4	47.3	47.4	47.8	47.9	47.9
≥ 0	28.1	41.4	47.7	49.7	51.5	53.4	55.4	55.5
TOTAL	308	454	523	545	564	585	607	608

TOTAL NUMBER OF OBS: 1096

PCT FREQ NH $\leq 5/8$ 44.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	13.3	8.0	8.9	6.9	7.4	5.8	9.0	10.2	23.5	7.0	1141

PERIOD: (PRIMARY) 1951-1970
(OVER-ALL) 1886-1970

OCTOBER

TABLE 8

AREA 0006 CABOT STRAIT
46.0N 58.5W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.2	.2	.2	.0	.1	*	.0	.0	.0	.8	
	NO PCP	.2	.1	.6	.7	.6	.7	.1	*	.0	.4	3.4	
	TOT %	.2	.3	.8	.9	.6	.8	.2	*	.0	.4	4.2	
1/2<1	PCP	.0	.0	.0	.2	.1	.1	.1	.1	.0	.1	.6	
	NO PCP	.0	.0	.1	.2	.3	.4	.1	.1	.0	.1	1.1	
	TOT %	.0	.0	.1	.4	.3	.4	.1	.1	.0	.1	1.6	
1<2	PCP	.1	.3	.1	.4	.2	.1	.1	.0	.0	.1	1.3	
	NO PCP	.0	.0	.1	.3	.2	.2	.1	.0	.0	.0	.8	
	TOT %	.1	.3	.2	.7	.5	.2	.1	.0	.0	.1	2.2	
2<5	PCP	.2	.3	.9	.7	.7	.2	.1	.3	.0	.1	3.5	
	NO PCP	.1	.2	.5	.7	.7	.7	.9	.2	.0	.1	4.0	
	TOT %	.2	.5	1.4	1.4	1.4	.9	1.0	.5	.0	.1	7.5	
5<10	PCP	.4	.6	.3	.4	.5	.4	.3	.7	.0	.0	3.5	
	NO PCP	2.6	1.7	1.4	1.4	2.8	2.5	2.5	3.9	.0	.3	19.1	
	TOT %	3.0	2.3	1.7	1.7	3.3	2.9	2.8	4.6	.0	.3	22.5	
10+	PCP	.1	.2	.2	.3	.3	.2	.6	.6	.0	.0	2.5	
	NO PCP	8.1	3.8	2.7	2.7	6.4	9.7	12.9	12.3	.0	.8	59.4	
	TOT %	8.2	4.0	2.9	3.0	6.7	10.0	13.5	12.8	.0	.8	61.9	
TOT OBS													1415
TOT PCT		11.7	7.5	7.1	8.1	12.7	15.1	17.8	18.1	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	.0	.0	.1	.1	.0	.0	.0	.4	.7	
	4-10	.1	.1	.3	.5	.3	.3	.1	.0	.0		1.6	
	11-21	.0	.1	.3	.2	.2	.3	.1	.0	.0		1.2	
	22+	.1	.1	.2	.2	.1	.1	*	*	.0		.6	
	TOT %	.2	.3	.8	.8	.7	.8	.2	*	.0	.4	4.1	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.0	.1	.1	.2	.1	.0	.0		.4	
	11-21	.0	.1	.1	.3	.1	.1	.0	.1	.0		.7	
	22+	.0	.0	.0	.1	.1	.1	.1	.1	.0		.4	
	TOT %	.1	.1	.1	.4	.3	.4	.1	.1	.0	.1	1.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	*	*	.1	.1	.1	.1	.0	.0		.4	
	11-21	.0	.2	.0	.2	.2	.2	.0	.0	.0		.8	
	22+	.1	.1	.2	.3	.2	.1	.1	.0	.0		1.0	
	TOT %	.1	.3	.2	.6	.4	.4	.1	.0	.0	.1	2.3	
2<5	0-3	.0	.0	.0	.1	.1	*	.2	.0	.0	.1	.5	
	4-10	.0	.1	.2	.2	.3	.2	.3	.1	.0		1.2	
	11-21	*	.1	.4	.5	.6	.4	.4	.2	.0		2.5	
	22+	.2	.2	.8	.7	.5	.3	.2	.2	.0		3.1	
	TOT %	.2	.5	1.4	1.4	1.4	.9	1.0	.5	.0	.1	7.3	
5<10	0-3	.2	.1	.0	.0	.2	.1	.1	.2	.0	.3	1.1	
	4-10	.3	.3	.2	.6	1.0	.7	.5	.7	.0		4.3	
	11-21	1.5	.9	1.0	.3	1.5	1.4	1.1	2.2	.0		9.9	
	22+	.9	1.0	.5	.7	.5	.5	1.1	1.4	.0		6.6	
	TOT %	2.9	2.3	1.7	1.6	3.1	2.7	2.8	4.4	.0	.3	21.9	
10+	0-3	.2	.3	.1	.2	.3	.6	.4	.7	.0	.7	3.5	
	4-10	1.7	1.4	1.0	1.3	1.9	3.2	3.5	3.6	.0		17.7	
	11-21	3.3	1.2	1.4	1.0	3.4	4.4	5.8	5.1	.0		25.5	
	22+	3.2	1.3	.5	.7	1.4	1.8	4.0	3.1	.0		16.0	
	TOT %	8.4	4.2	3.0	3.1	7.0	10.0	13.7	12.6	.0	.7	62.7	
TOT OBS													1472
TOT PCT		11.8	7.6	7.2	8.0	12.9	15.1	17.9	17.6	.0	1.8	100.0	

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PERIOD: (PRIMARY) 1951-1970
(OVER-ALL) 1886-1970

AREA 0006 CABOT STRAIT
46.0N 58.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	8.7	.4	.8	7.0	10.7	13.6	2.5	.4	.8	2.1	47.1	52.9	242
06009	7.5	.9	1.3	5.3	15.5	14.6	4.0	.4	2.7	2.7	54.9	45.1	226
12015	8.8	.0	1.4	6.5	14.4	13.6	3.7	3.7	6.8	2.0	60.9	39.1	353
18021	5.1	.7	.7	8.1	17.8	11.4	3.0	1.7	2.7	1.7	52.9	47.1	297
TOT	84	5	12	76	165	148	37	20	40	23	610	508	1118
PCT	7.5	.4	1.1	6.8	14.8	13.2	3.3	1.8	3.6	2.1	54.6	45.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	5.2	1.1	2.3	6.0	20.7	64.7	348
06009	4.2	3.1	1.0	5.9	22.0	63.6	286
12015	4.3	1.7	2.5	8.1	22.9	60.5	484
18021	4.3	1.3	3.1	8.1	21.1	62.1	393
TOT	68	76	35	109	329	944	1511
PCT	4.5	1.7	2.3	7.2	21.8	62.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	8.8	10.5	20.6	27.7	51.7	238
06009	7.7	10.8	19.8	36.9	43.2	222
12015	8.7	10.5	23.0	40.4	36.6	344
18021	5.1	7.9	22.6	32.9	44.5	292
TOT	83	108	238	383	475	1096
PCT	7.6	9.9	21.7	34.9	43.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.1	.2	.1	.1	.0	3	.6
60/64	.0	.0	.0	.0	.1	.6	.6	.9	19	2.1
55/59	.0	.1	.2	.6	1.2	3.3	5.2	4.3	132	14.8
50/54	.0	.0	.3	.3	2.9	5.7	10.5	12.2	286	32.1
45/49	.0	.0	.2	1.3	4.9	8.9	8.9	6.7	276	30.9
40/44	.0	.0	.2	.7	3.4	4.6	2.6	2.4	123	13.8
35/39	.0	.0	.0	.3	1.9	2.0	.4	.8	49	5.5
30/34	.0	.0	.0	.0	.0	.1	.0	.1	2	.2
TOTAL	0	1	9	30	131	225	252	244	892	100.0
PCT	.0	.1	1.0	3.4	14.7	25.2	28.3	27.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.1	.4	.0	.0	.0	.0
.1	.0	.0	.4	.5	.7	.3	.0	.0	.1
.4	.4	.6	2.2	4.3	3.3	2.1	.9	.0	.6
1.6	1.0	3.1	3.1	5.8	5.4	6.0	5.0	.0	1.0
3.5	3.0	2.4	2.0	2.8	3.7	7.7	5.8	.0	.0
3.6	1.8	.2	.4	.6	1.3	2.6	3.1	.0	.1
1.7	.8	.1	.1	.1	.8	.7	1.2	.0	.0
.1	.1	.0	.0	.0	.0	.0	.1	.0	.0
11.1	7.2	6.3	8.2	14.3	15.6	19.4	16.1	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	62	59	57	49	39	35	33	48.8	376
06009	63	59	57	49	38	34	33	48.4	302
12015	68	64	58	49	40	36	33	49.2	507
18021	69	65	61	50	40	37	36	50.6	400
TOT	69	64	58	49	39	36	33	49.3	1585

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.9	14.3	21.3	30.3	29.1	81	244		
06009	.0	1.0	14.6	24.3	26.7	33.5	83	206		
12015	.0	5.1	11.8	28.7	27.8	26.6	81	237		
18021	.0	6.6	18.0	27.2	27.2	21.1	79	228		
TOT	0	41	134	232	257	251	81	915		

PERIOD: (PRIMARY) 1951-1970
(OVER-ALL) 1886-1970

OCTOBER

AREA 0000 CABOT STRAIT
46.6N 58.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.2
14/16	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	2	.0	.2
11/13	.0	.0	.0	.0	.2	.3	.0	.0	.3	.0	8	.0	.7
9/10	.0	.0	.0	.0	.4	.3	.5	.2	.0	.1	15	.2	1.2
7/8	.0	.0	.0	.0	.3	1.0	.3	.6	.0	.0	27	.4	2.1
6	.0	.0	.0	.1	.3	.5	.7	.2	.0	.0	20	.5	1.4
5	.0	.1	.0	.1	1.3	1.4	1.7	.3	.1	.0	55	.6	4.3
4	.0	.0	.1	.2	1.5	1.2	1.4	.0	.0	.0	49	.9	3.5
3	.0	.0	.1	1.3	1.5	2.6	1.0	.2	.0	.0	74	.6	6.1
2	.0	.0	.2	1.2	2.2	2.2	.9	.1	.0	.0	74	.5	6.1
1	.0	.0	.2	2.1	4.0	2.3	.3	.0	.0	.0	100	1.1	8.0
0	.0	.0	.3	2.8	3.9	1.7	.2	.0	.0	.0	98	.3	8.6
-1	.0	.1	.5	2.4	2.3	2.3	.0	.0	.0	.0	83	.5	7.1
-2	.1	.0	.9	2.6	2.5	.9	.2	.0	.0	.0	80	.4	6.9
-3	.0	.2	1.3	2.3	1.7	.6	.1	.0	.0	.0	68	.6	5.5
-4	.0	.2	.7	2.9	1.6	.3	.1	.0	.0	.0	64	.0	5.8
-5	.1	.1	.6	1.8	1.4	.3	.0	.0	.0	.0	47	.0	4.2
-6	.0	.5	1.3	2.0	.3	.2	.0	.0	.0	.0	49	.1	4.3
-7/-8	.3	1.9	2.4	2.3	.5	.3	.0	.0	.0	.0	84	.1	7.5
-9/-10	.2	1.1	1.8	.5	.2	.1	.0	.0	.0	.0	43	.0	3.9
-11/-13	.9	1.7	1.3	.3	.0	.1	.0	.0	.0	.0	46	.0	4.2
-14/-16	.5	1.0	.0	.0	.1	.0	.0	.0	.0	.0	18	.0	1.6
TOTAL	19		134		287		88		4		74		1032
PCT	1.7	6.8	12.1	24.8	25.9	18.3	8.0	1.6	.4	.2	1106	6.7	93.3
											100.0		

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.2	.1	.6	.0	.0	.0	.0	.7
1-2	.0	.5	.5	.0	.0	.0	1.1	.0	.0	.7	.0	.0	.0	.7
3-4	.0	.8	1.5	.3	.0	.0	2.6	.0	.4	.7	.0	.0	.0	1.1
5-6	.0	.0	1.9	1.1	.5	.0	3.4	.0	.0	.2	.4	.0	.0	.5
7	.0	.0	.0	.3	.3	.0	.6	.0	.0	.1	.3	.0	.0	.4
8-9	.0	.0	.0	1.0	.4	.0	1.5	.0	.0	.0	.8	.1	.0	.8
10-11	.0	.0	.3	.2	.3	.0	.8	.0	.0	.0	.7	.0	.0	.7
12	.0	.0	.0	.7	.5	.0	1.1	.0	.0	.0	.8	.5	.0	1.2
13-16	.0	.0	.0	.5	.5	.0	1.1	.0	.0	.3	.4	.4	.0	1.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.3	4.3	4.1	2.6	.0	12.5	.1	1.0	1.7	3.3	.9	.0	7.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.5	.3	.0	.0	.0	.8	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.2	.3	.0	.0	.0	.5	.0	1.0	.3	.0	.0	.0	1.3
3-4	.0	.0	.5	.0	.0	.0	.5	.0	.9	.7	.6	.0	.0	2.2
5-6	.0	.0	.8	.5	.0	.0	1.4	.0	.4	.2	.4	.0	.0	1.0
7	.0	.3	.2	.7	.0	.0	1.2	.0	.0	.4	.5	.0	.0	.9
8-9	.0	.0	.3	.3	.0	.0	.6	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	2.5	1.5	.0	.0	5.1	.0	2.4	1.6	2.1	.3	.0	6.4

PERIOD: (OVER-ALL) 1963-1970

OCTOBER

AREA 0006 CABOT STRAIT
46.6N 58.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.6	.0	.0	.0		.6	.3	.6	.0	.0	.0	.0		.9
1-2	.0	.8	.9	.0	.0	.0		1.8	.0	1.4	.3	.0	.0	.0		1.8
3-4	.0	.3	4.3	.3	.0	.0		4.9	.0	1.6	4.3	.5	.0	.0		6.3
5-6	.0	.2	1.8	.3	.3	.0		2.7	.0	.0	1.4	.9	.0	.0		2.3
7	.0	.3	.5	.8	.3	.0		2.0	.0	.0	.6	.4	.0	.0		1.0
8-9	.0	.2	.3	.0	.2	.0		.8	.0	.1	.3	.3	.1	.0		.8
10-11	.0	.0	.2	.6	.0	.0		.8	.0	.0	.4	.3	.0	.0		.7
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.6	.0	.0		.6	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	1.9	8.7	2.7	.8	.0		14.1	.3	3.7	7.4	2.4	.1	.0		13.8

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.6	.0	.0	.0	.0		.6	.0	.9	.0	.0	.0	.0		.9	
1-2	.0	3.4	3.1	.0	.0	.0		6.5	.0	2.1	2.5	.0	.0	.0		4.6	
3-4	.0	1.5	2.7	.9	.0	.0		5.1	.0	2.1	1.8	.8	.0	.0		4.7	
5-6	.0	.3	2.0	.0	.2	.0		2.5	.0	.3	3.0	.4	.2	.0		3.9	
7	.0	.0	1.4	.9	.0	.0		2.4	.0	.0	1.0	.0	.3	.0		1.3	
8-9	.0	.0	.2	.9	.3	.0		1.4	.0	.0	1.0	.1	.0	.0		1.1	
10-11	.0	.0	.0	.3	.0	.0		.5	.0	.0	.0	.7	.6	.0		1.3	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.3	.0		.4	
13-16	.0	.0	.3	.3	.2	.0		.8	.0	.0	.0	.3	.4	.0		.7	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	5.8	9.8	3.6	.8	.0		19.9	.0	5.5	9.3	2.3	1.8	.0		18.9	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.0	3.3	.9	.0	.0	.0	7.3	
1-2	.0	9.4	8.8	.0	.0	.0	18.2	
3-4	.0	7.6	16.4	9.3	.0	.0	27.4	
5-6	.0	1.2	11.2	4.0	1.2	.0	17.6	
7	.0	.6	4.3	4.0	.9	.0	9.7	
8-9	.0	.3	2.1	4.0	1.2	.0	7.6	
10-11	.0	.0	.9	3.0	.9	.0	4.9	
12	.0	.0	.0	1.5	1.2	.0	2.7	
13-16	.0	.0	.6	2.1	1.5	.0	4.3	
17-19	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.0	22.5	43.3	21.9	7.3	.0	100.0	329

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	6.7	16.7	10.7	4.1	1.5	.4	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	291	4
6-7	.0	1.2	5.8	6.1	6.2	7.5	2.9	.7	1.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	186	7
8-9	.0	.7	1.2	1.3	1.5	1.9	2.2	2.6	2.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	95	9
10-11	.0	.1	.1	.4	.9	.3	.7	.4	.9	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	29	10
12-13	.0	.0	.4	.1	.0	.3	.1	.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	9
>13	.0	.0	.0	.1	.0	.0	.0	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	13
INDET	1.7	2.8	2.5	1.7	.1	.7	.1	.0	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	72	4
TOTAL	23	79	184	142	88	49	45	30	38	3	6	0	2	0	0	0	0	0	0	689	6
PCT	3.3	11.5	26.7	20.6	12.8	7.1	6.5	4.4	5.5	.4	.9	.0	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1943-1970
(OVER-ALL) 1875-1970

NOVEMBER

AREA 0006 CABOT STRAIT
46.3N 58.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG SNOW	
N	4.0	1.3	7.6	.0	9.6	.6	.0	21.5	2.1	.0	2.7	.0	.3	.0	73.3
NE	18.4	1.1	11.0	.0	6.7	.0	.0	32.4	2.4	.0	6.4	.0	.0	.0	58.8
E	26.6	.8	11.0	.0	5.3	.0	.0	37.3	2.7	.8	10.1	.0	.8	.0	48.9
SE	21.8	2.3	11.8	.0	.7	.0	.0	33.4	3.3	.0	10.9	.0	.0	.0	52.3
S	13.3	2.0	5.4	.0	.0	.0	.0	20.5	1.9	.0	13.2	.0	1.3	.0	62.9
SW	8.4	1.6	5.8	.0	1.2	.0	.0	15.7	2.5	.0	9.1	.0	3.1	.0	69.7
W	1.9	2.1	.5	.0	7.1	.3	.3	11.3	4.3	.0	2.1	.0	.9	.0	81.5
NW	2.3	1.5	1.1	.0	9.8	.0	.3	14.6	3.6	.0	1.5	.0	.8	.0	79.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.9	5.9	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	5.9	.0	82.4
TOT PCT	9.2	1.7	5.1	.0	5.2	.1	.1	19.8	3.0	.1	6.2	.0	1.1	.0	69.9
TOT OBS:	1663														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG SNOW	
0003	7.6	1.5	5.9	.0	6.3	.0	.2	21.0	1.7	.0	5.4	.0	.2	.0	71.7
0609	9.9	2.4	4.5	.0	4.5	.3	.0	19.4	4.5	.0	7.2	.0	2.1	.0	66.9
1215	9.1	1.4	6.1	.0	5.1	.2	.2	19.6	1.4	.2	6.3	.0	1.0	.0	71.7
1821	10.4	2.0	3.4	.0	4.5	.0	.0	19.0	4.8	.0	6.3	.0	1.4	.0	68.5
TOT PCT	9.2	1.8	5.0	.0	5.1	.1	.1	19.8	3.0	.1	6.2	.0	1.1	.0	69.9
TOT OBS:	1661														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	2.5	4.3	2.1	.5	.1		9.6	17.3		10.2	13.3	8.0	10.5	9.2	7.7	9.1	11.5
NE	.2	1.4	2.5	1.1	.4	.0		5.7	17.4		6.9	6.9	7.2	4.8	5.8	6.3	3.2	4.2
E	.1	1.7	2.9	1.7	.8	.1		7.4	19.4		6.4	8.7	6.8	11.6	7.5	9.8	6.1	5.0
SE	.1	1.7	4.1	1.9	.8	.0		8.6	18.5		7.9	4.8	8.3	6.8	11.1	9.0	11.0	3.9
S	.2	2.6	6.3	3.9	.5	.1		13.6	18.0		14.1	15.7	15.5	8.7	9.3	14.2	15.5	16.7
SW	.3	9.2	6.6	3.6	.6	.0		14.4	17.1		14.5	15.5	13.0	19.4	13.4	12.4	13.5	17.6
W	.4	3.8	8.8	5.1	2.6	.2		20.8	19.7		21.9	21.4	20.3	18.8	21.9	19.4	19.4	22.6
NW	.3	3.5	7.8	5.3	1.5	.5		18.8	17.0		17.8	13.7	19.2	17.8	19.7	19.6	21.2	17.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0		.3	.0	1.7	1.7	2.1	1.6	1.0	.6
TOT OBS	52	364	776	443	138	18	1791		18.4		320	126	240	121	338	186	301	159
TOT PCT	2.9	20.3	43.3	24.7	7.7	1.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.0	4.0	3.0	1.5	.1		9.6	17.3	11.1	8.9	8.6	9.9
NE	.8	2.4	1.4	1.0	.1		5.7	17.4	6.9	6.4	6.0	3.5
E	.9	2.2	2.6	1.4	.3		7.4	19.4	7.1	8.4	8.3	5.8
SE	.5	3.1	3.5	1.2	.2		8.6	18.5	7.0	7.8	10.4	8.6
S	.8	5.7	5.3	1.7	.2		13.6	18.0	14.6	13.2	11.1	15.9
SW	1.2	6.5	4.8	1.8	.0		14.4	17.1	14.7	15.2	13.0	14.9
W	1.4	7.9	6.8	4.2	.5		20.8	19.7	21.7	19.8	21.0	20.5
NW	1.3	6.5	6.9	3.5	.5		18.8	20.0	18.6	18.7	19.7	20.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	.2	1.7	1.9	.9
TOT OBS	162	687	615	292	35	1791		18.4	446	361	524	460
TOT PCT	9.0	38.4	34.3	16.3	2.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1943-1970
(OVER-ALL) 1875-1970AREA 0006 CABOT STRAIT
46.5N 58.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	.2	3.1	22.4	39.5	27.4	6.7	.7	18.0	100.0	446	
06009	1.7	1.1	19.7	45.7	24.9	6.4	.6	18.1	100.0	361	
12015	1.9	1.7	22.1	42.7	23.1	7.1	1.3	18.1	100.0	524	
18021	.9	.9	16.7	45.9	23.9	10.4	1.3	19.5	100.0	460	
TOT	21	31	364	776	443	138	18	18.4		1791	
PCT	1.2	1.7	20.3	43.3	24.7	7.7	1.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	.4	3.3	3.0		5.9
NE	.9	.4	1.1	3.0		6.1
E	.0	.2	1.3	5.6		7.5
SE	.3	.1	1.7	7.1		7.4
S	1.1	.7	2.3	10.1		7.0
SW	1.0	1.1	3.3	6.4		6.5
W	2.9	3.1	8.6	8.9		5.8
NW	2.0	1.9	8.4	6.9		6.0
VAR	.0	.0	.0	.0		.0
CALM	.6	.1	.7	.4		4.6
TOT OBS	98	78	303	508	987	6.4
TOT PCT	9.9	7.9	30.7	51.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.7	.1	.0	.2	2.2	1.8	.7	.2	.1	.0	1.9	
NE	.2	.0	.6	1.8	.8	.2	.3	.0	.0	.0	1.4	
E	1.2	.1	.1	1.4	1.6	.9	.5	.1	.2	.1	.9	
SE	1.9	.1	.2	1.1	2.3	1.0	.4	.2	.4	.2	1.5	
S	2.5	.2	.1	.8	2.7	2.2	.7	.6	.6	.3	3.6	
SW	.7	.0	.3	1.0	2.3	1.8	.5	.2	.3	.4	4.4	
W	.8	.0	.4	2.1	4.2	4.6	1.9	.7	.6	.3	7.9	
NW	.3	.1	.7	1.3	4.4	3.4	1.5	1.2	.8	.1	3.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	.2	.3	.0	.0	.0	.2	.9	
TOT OBS	83	6	17	85	215	167	63	34	31	12	274	987
TOT PCT	8.4	.6	1.7	8.6	21.8	16.9	6.4	3.4	3.1	1.2	27.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.5	3.8	4.2	4.3	4.3	4.3	4.3	4.3
>5000	4.3	7.0	7.6	7.7	7.7	7.7	7.8	7.8
>3500	8.9	12.7	13.8	14.0	14.0	14.0	14.1	14.1
>2000	19.8	28.7	30.6	30.9	31.0	31.0	31.1	31.1
>1000	31.1	47.1	51.9	52.5	52.7	52.8	52.9	52.9
>600	35.1	53.2	59.8	60.6	61.2	61.4	61.5	61.5
>300	35.7	54.3	61.5	62.4	63.0	63.2	63.3	63.2
>150	35.8	54.5	62.0	63.0	63.6	63.8	63.9	63.9
>0	36.1	55.2	63.9	67.0	69.1	70.3	72.2	72.5
TOTAL	358	548	634	643	685	697	716	719

TOTAL NUMBER OF OBS: 992

PCT FREQ NH <5/8: 27.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	7.2	2.6	7.0	5.6	5.2	6.9	13.2	9.9	35.4	7.4	1072

PERIOD: (PRIMARY) 1943-1970
(OVER-ALL) 1875-1970

NOVEMBER

AREA 0000 CABOT STRAIT
46.5N 58.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.1	*	.2	.1	.0	.2	.0	.1	.8	
	NO PCP	.1	.3	.2	.3	1.0	.5	.2	*	.0	.0	2.7	
	TOT %	.7	.4	.3	.5	1.2	.4	.2	.2	.0	.1	3.5	
1/2<1	PCP	.4	.5	.4	.1	.2	.3	.1	.1	.0	.0	2.2	
	NO PCP	.1	.1	.1	.1	.1	.3	.2	.0	.0	.0	.9	
	TOT %	.9	.9	.5	.3	.4	.6	.3	.1	.0	.0	3.1	
1<2	PCP	.1	.1	.4	.4	.3	.3	*	.1	.0	.1	1.9	
	NO PCP	.1	*	.3	.2	.2	.1	.0	.1	.0	.0	1.0	
	TOT %	.2	.2	.7	.6	.5	.4	*	.2	.0	.1	2.9	
2<5	PCP	.3	.7	.7	1.3	.9	.3	.5	.4	.0	.0	4.4	
	NO PCP	.2	.3	.4	.9	.7	.7	.4	.5	.0	.1	4.1	
	TOT %	.4	.5	1.1	2.2	1.6	1.0	.8	.9	.0	.1	8.6	
5<10	PCP	1.1	.8	1.0	1.1	1.1	1.1	.7	1.3	.0	.0	8.1	
	NO PCP	3.0	1.0	1.3	1.9	4.0	4.7	6.2	5.0	.0	.2	27.6	
	TOT %	4.1	1.8	2.3	3.0	5.1	5.8	6.9	6.3	.0	.2	35.7	
10+	PCP	.2	.2	.1	*	.2	.2	1.1	.6	.0	.0	2.5	
	NO PCP	3.9	2.1	2.1	2.2	5.1	6.2	11.7	9.8	.0	.6	43.8	
	TOT %	4.1	2.3	2.3	2.2	5.3	6.3	12.8	10.4	.0	.6	46.3	
TOT OBS													1666
TOT PCT		9.5	5.6	7.1	8.7	14.1	14.4	21.1	18.2	.0	1.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.2	
	4-10	.1	.2	.1	.1	.2	.1	.0	.0	.0		.8	
	11-21	.0	.1	*	.4	.8	.2	*	*	.0		1.8	
	22+	.1	.1	.1	.0	.2	.1	.0	.2	.0		.8	
	TOT %	.2	.4	.3	.5	1.2	.6	.2	.2	.0	.1	3.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	11-21	.1	.1	.1	.1	.1	.3	.2	.1	.0		1.2	
	22+	.3	.4	.3	.1	.2	.2	.1	.1	.0		1.6	
	TOT %	.5	.5	.4	.3	.3	.6	.3	.1	.0	.0	3.0	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.1	.0	.1	.1	*	.0	.0		.4	
	11-21	.0	*	.2	.2	.3	.3	.0	.0	.0		1.0	
	22+	.1	.1	.4	.3	.2	.1	*	.2	.0		1.4	
	TOT %	.2	.1	.8	.6	.5	.5	.1	.2	.0	.1	3.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	*	.1	.1	.1	.1	.1	*	.2	.0		.8	
	11-21	.2	.2	.2	1.1	.6	.3	.2	.3	.0		3.1	
	22+	.1	.2	.8	1.0	.9	.5	.6	.4	.0		4.3	
	TOT %	.4	.4	1.1	2.1	1.5	1.0	.8	.9	.0	.1	8.3	
5<10	0-3	.1	.1	*	.1	.1	*	.2	.1	.0	.2	1.0	
	4-10	.7	.4	.4	.7	.8	1.2	1.0	.8	.0		6.0	
	11-21	2.0	.7	1.2	1.5	2.1	2.3	1.9	2.2	.0		13.8	
	22+	1.2	.6	.6	.6	2.0	2.3	3.6	3.0	.0		13.9	
	TOT %	4.0	1.8	2.3	2.9	5.0	5.8	6.7	6.1	.0	.2	34.7	
10+	0-3	.1	.1	.1	.0	*	.2	.2	.2	.0	.7	1.6	
	4-10	1.6	.6	.9	.8	1.3	1.7	2.8	2.5	.0		12.6	
	11-21	1.8	1.4	.9	.8	2.6	3.2	6.2	4.8	.0		21.8	
	22+	.8	.3	.3	.5	1.0	1.1	3.8	3.4	.0		11.3	
	TOT %	4.4	2.5	2.3	2.2	5.2	6.3	13.0	10.9	.0	.7	47.3	
TOT OBS													1728
TOT PCT		9.5	5.7	7.1	8.5	13.8	14.7	21.1	18.5	.0	1.2	100.0	

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PERIOD: (PRIMARY) 1943-1970
(OVER-ALL) 1875-1970

AREA 0006 CABOT STRAIT
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	8.3	.5	1.5	10.3	19.1	18.6	5.9	2.0	1.0	2.5	69.6	30.4	204
06009	6.9	.5	2.3	10.1	18.8	20.6	5.5	1.4	2.3	.0	68.3	31.7	218
12015	8.5	1.1	1.8	5.7	24.9	14.9	5.0	4.6	3.2	2.1	71.9	28.1	281
18021	9.3	.3	1.6	8.3	21.4	14.1	8.0	4.5	4.8	.3	72.5	27.5	313
TOT	85	6	18	85	217	169	63	34	31	12	720	296	1016
PCT	8.4	.6	1.8	8.4	21.4	16.6	6.2	3.3	3.1	1.2	70.9	29.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.8	2.5	2.1	7.9	43.9	40.9	433
06009	3.7	1.7	1.4	7.6	35.1	50.4	353
12015	4.1	4.1	3.2	8.3	32.3	47.9	307
18021	4.2	3.1	4.6	9.1	28.9	50.1	453
TOT	65	52	31	144	609	825	1746
PCT	3.7	3.0	2.9	8.2	34.9	47.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	8.5	11.6	27.6	43.7	28.6	199
06009	7.2	10.5	23.9	47.8	29.2	209
12015	8.7	12.0	24.6	49.6	25.7	276
18021	9.4	13.3	27.9	46.4	25.6	308
TOT	85	119	259	467	266	992
PCT	8.6	12.0	26.1	47.1	26.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	.2	.1		3	.3
55/59	.0	.0	.0	.0	.5	.7	.8		20	2.1
50/54	.0	.0	.1	.0	.4	.6	3.4	8.1	119	12.6
45/49	.0	.0	.0	.1	1.4	5.0	8.0	11.1	241	25.6
40/44	.0	.0	.2	1.0	3.9	7.2	7.0	8.4	261	27.7
35/39	.0	.0	.1	1.3	5.2	5.9	4.8	5.4	214	22.7
30/34	.0	.0	.0	.3	1.4	1.5	1.9	2.4	71	7.5
25/29	.0	.0	.0	.0	.2	.0	.3	.8	13	1.4
TOTAL	0	0	4	25	118	196	248	351	942	100.0
PCT	.0	.0	.4	2.7	12.9	20.8	26.3	37.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0
55/59	.0	.0	.1	1.1	.6	.1	.1	.1	.0	.0
50/54	.4	.1	.5	1.8	5.7	3.3	.5	.3	.0	.1
45/49	.9	.9	3.8	3.4	5.5	5.3	3.5	2.0	.0	.3
40/44	3.7	3.2	2.1	1.1	2.5	2.7	6.9	4.9	.0	.5
35/39	2.7	1.5	1.9	.7	.4	1.8	6.6	6.7	.0	.4
30/34	1.0	.2	.4	.2	.2	.5	2.2	2.9	.0	.0
25/29	.1	.1	.0	.0	.0	.0	.5	.7	.0	.0
TOTAL	8.7	6.1	8.8	8.5	15.0	13.6	20.3	17.6	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	60	55	52	42	31	26	23	41.9	446
06009	58	53	51	42	32	28	26	42.0	360
12015	61	56	51	42	31	27	23	41.7	525
18021	60	56	53	42	32	27	25	42.3	460
TOT	61	56	51	42	32	27	23	41.9	1791

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.4	14.1	15.3	28.6	39.5	84	248
06009	.0	4.9	11.5	19.3	23.4	41.0	83	244
12015	.0	1.7	9.9	24.5	27.0	36.9	84	233
18021	.0	3.6	14.2	24.0	27.1	31.1	82	225
TOT	0	30	118	196	252	354	83	950

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PERIOD: (PRIMARY) 1943-1970
(OVER-ALL) 1875-1970AREA 0006 CABOT STRAIT
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THR OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.1	.3	.1	.2	.0	10	.1	.7
7/8	.0	.0	.0	.0	.0	.0	.4	.4	.4	.2	.0	20	.3	1.2
6	.0	.0	.0	.0	.0	.1	.1	.5	.3	.1	.0	16	.2	.9
5	.0	.0	.0	.0	.0	.1	.4	1.7	.4	.1	.0	39	.4	2.5
4	.0	.0	.0	.0	.0	.3	.5	1.2	1.4	.5	.1	53	.5	3.5
3	.0	.0	.0	.0	.1	.7	1.7	2.0	.4	.1	.0	70	.7	4.4
2	.0	.0	.0	.1	.5	1.2	2.2	1.3	.4	.0	.0	78	.7	5.0
1	.0	.0	.0	.1	.8	1.3	3.1	1.3	.1	.0	.0	93	.6	6.1
0	.0	.0	.0	.1	1.5	2.1	3.1	1.2	.1	.0	.0	113	.7	7.5
-1	.0	.0	.0	.1	1.4	2.0	1.7	.5	.1	.0	.0	80	.9	4.9
-2	.0	.0	.0	.1	1.3	2.4	2.2	.5	.0	.0	.0	91	.3	6.3
-3	.0	.0	.2	.4	1.7	2.7	2.0	.4	.0	.0	.0	103	.6	6.9
-4	.0	.0	.1	1.2	2.7	2.5	.8	.0	.0	.0	.0	101	.1	7.2
-5	.0	.0	.2	1.2	3.2	2.5	.9	.1	.0	.0	.0	113	.1	8.0
-6	.0	.0	.4	1.2	2.5	1.4	.2	.1	.0	.0	.0	79	.1	5.6
-7/-8	.0	.1	1.4	2.5	4.7	1.6	.4	.0	.0	.0	.0	147	.0	10.6
-9/-10	.0	.4	1.3	2.2	1.6	.6	.0	.1	.0	.0	.0	84	.0	6.1
-11/-13	.0	.8	1.5	1.6	.9	.1	.1	.0	.0	.0	.0	69	.1	4.9
-14/-16	.1	.2	.1	.4	.3	.0	.0	.0	.0	.0	.0	16	.0	1.2
-17/-19	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	5	.0	.4
TOTAL	2		72		324		286		38		1	84		1300
PCT	.1	1.5	5.2	11.5	23.4	21.9	20.7	11.8	2.7	1.0	.1	1384	6.1	93.9

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.7	1.3	.0	.0	.0	2.0	.0	.0	.8	.0	.0	.0	.8
3-4	.0	.2	.7	.8	.0	.0	1.2	.0	.6	1.5	.0	.0	.0	2.0
5-6	.0	.4	.5	.7	.0	.0	1.6	.0	.0	.6	.1	.0	.0	.7
7	.0	.3	.2	.5	.0	.0	1.0	.0	.0	.4	.3	.3	.0	1.0
8-9	.0	.0	.0	.2	.6	.0	.8	.0	.0	.3	.3	.0	.0	.6
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	2.5	2.3	.6	.3	7.3	.0	.6	3.7	1.0	.3	.0	5.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.3	.0	.0	.0	.6	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.7	.3	.0	.0	.0	1.0	.0	.6	.3	.0	.0	.0	.9
3-4	.0	.8	1.1	.0	.0	.0	1.9	.0	.8	1.6	.3	.0	.0	2.7
5-6	.0	.0	.0	.2	.0	.0	.2	.0	.0	1.7	.4	.3	.0	2.4
7	.0	.0	.4	.3	.3	.0	1.0	.0	.0	.3	1.5	.0	.0	1.7
8-9	.0	.0	.2	.0	.6	.0	.8	.0	.0	.1	.6	.1	.0	.8
10-11	.0	.0	.4	.3	.0	.0	.7	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.1	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.5	.3	.8	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.3	.3	.6	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	2.7	1.0	1.6	.6	7.6	.0	1.7	4.4	3.5	1.0	.0	10.4

PERIOD: (OVER-ALL) 1963-1970

NOVEMBER

AREA 000A CABOT STRAIT
46.9N 58.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.6	.0	.0	.0	1.3	.1	.9	.0	.0	.0	.0	1.0
1-2	.3	1.2	1.8	.0	.0	.0	3.0	.0	.8	2.3	.0	.0	.0	3.1
3-4	.0	.2	2.1	1.1	.0	.0	3.5	.0	1.3	1.6	.3	.0	.0	3.2
5-6	.0	.0	.5	.5	.3	.0	1.2	.0	.1	1.7	.3	.0	.0	2.1
7	.0	.0	.8	.8	.0	.0	1.5	.0	.0	.3	.3	.0	.0	.6
8-9	.0	.0	.4	.7	.2	.0	1.3	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
12	.0	.0	.0	.3	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.6	.0	1.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.9	6.1	3.7	1.3	.0	13.3	.1	3.0	6.1	1.1	.6	.0	10.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.5	.5	.0	.0	.0	2.0	.0	.3	.1	.0	.0	.0	.4	
1-2	.0	1.7	1.0	.0	.0	.0	2.7	.0	1.4	.9	.0	.0	.0	2.3	
3-4	.0	1.2	3.0	1.4	.0	.0	5.6	.0	1.5	1.9	.6	.0	.0	3.9	
5-6	.0	.2	4.6	1.2	.5	.0	6.5	.0	.1	3.4	.5	.1	.0	4.1	
7	.0	.0	1.3	1.0	.6	.0	2.8	.0	.0	1.2	.8	.0	.0	2.0	
8-9	.0	.0	.7	.7	.5	.0	1.9	.0	.0	1.0	.6	.1	.0	1.7	
10-11	.0	.0	.0	.5	.3	.0	.8	.0	.0	.3	.3	.3	.0	.9	
12	.0	.0	.0	.3	.8	.0	1.6	.0	.0	.0	.3	.1	.0	.3	
13-16	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.6	.3	.0	1.0	
17-19	.0	.0	.0	.0	.3	.2	.5	.0	.0	.0	.0	.0	.1	.1	
20-22	.0	.0	.0	.2	1.1	.0	1.3	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.6	11.0	5.2	4.7	.8	26.4	.0	3.3	8.8	3.7	.8	.9	17.5	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.6	4.4	1.4	.0	.0	.0	7.4	
1-2	.0	6.8	8.7	.0	.0	.0	15.6	
3-4	.3	6.6	12.8	4.4	.0	.0	24.0	
5-6	.0	.8	12.8	3.8	1.1	.0	18.6	
7	.0	.3	4.9	4.2	1.1	.0	11.5	
8-9	.0	.0	2.7	3.3	1.9	.0	7.9	
10-11	.0	.0	1.1	1.6	.8	.0	3.6	
12	.0	.0	.3	1.1	1.1	.5	3.0	
13-16	.0	.0	.0	1.6	2.2	.0	3.8	
17-19	.0	.0	.0	.0	.5	.3	.8	
20-22	.0	.0	.0	.3	1.6	.3	2.2	
23-25	.0	.0	.0	.0	.3	.3	.5	
26-32	.0	.0	.0	.0	.0	1.1	1.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.9	18.9	44.8	21.3	10.7	2.5	100.0	366

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	7.6	12.8	7.0	6.7	1.6	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	266	4
6-7	.0	1.0	4.2	5.7	6.5	4.2	3.2	1.3	1.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	196	7
8-9	.0	.1	.9	2.3	3.2	1.6	1.1	2.0	1.9	.3	.1	.1	1.1	.0	.0	.0	.0	.0	.0	103	10
10-11	.0	.6	.3	.6	.4	1.1	.3	.3	1.0	.0	.1	.1	.7	.0	.0	.0	.0	.0	.0	39	11
12-13	.0	.0	.4	.3	.0	.3	.1	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	9
13-14	.0	.0	.0	.1	.0	.0	.1	.4	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	7	12
INDST	1.3	1.0	2.0	1.4	2.7	.7	.3	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	5
TOTAL	21	72	143	122	136	66	40	34	36	4	7	2	14	0	0	0	0	0	0	697	7
PCT	3.0	10.3	20.5	17.5	19.5	9.5	5.7	4.9	5.2	.6	1.0	.3	2.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1878-1970

AREA 0006 CABOT STRAIT
46.6N 58.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	PRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	5.4	.8	.6	.0	11.0	.0	.0	17.8	4.8	.0	.6	.0	.8	1.4	74.5
NE	8.8	1.8	3.5	.0	18.9	.0	.0	31.1	2.6	1.8	3.9	.0	.4	.4	61.4
E	11.9	2.7	5.8	.0	9.9	.7	1.4	30.0	2.4	.0	7.5	.0	1.0	.0	59.0
SE	20.5	1.6	9.0	.0	9.0	.6	1.2	31.4	4.0	.0	5.6	.0	.0	.0	59.0
S	14.9	2.7	4.8	.0	10.3	.0	1.2	32.5	3.0	.0	10.6	1.2	.0	.0	52.6
SW	4.3	.8	1.8	.0	10.2	.0	.4	17.6	2.7	.0	3.5	.8	.0	.0	75.5
W	2.6	.5	.6	.4	19.7	.0	1.4	24.4	4.8	.4	1.2	.0	.4	.0	68.8
NW	3.1	.6	.3	.0	20.5	.5	1.5	25.5	3.5	.0	.5	.0	.0	.0	70.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALN	5.9	.0	.0	.0	5.9	.0	.0	11.8	.0	.0	5.9	.0	5.9	.0	76.5
TOT PCT	6.8	1.1	1.9	.1	15.0	.2	1.0	24.8	3.7	.2	3.1	.2	.4	.2	67.5
TOT OBS:	1001														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	PRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
0000	6.6	1.6	2.3	.4	16.3	.0	1.2	27.1	1.2	.0	3.5	.8	.4	.4	66.7
0600	9.2	1.4	2.9	.0	15.0	1.0	1.0	28.0	5.3	.5	2.9	.0	.5	.0	63.3
1200	5.1	.0	.3	.0	14.3	.0	1.4	20.4	3.1	.3	2.7	.0	.7	.0	72.8
1800	7.2	1.6	2.4	.0	14.1	.0	.4	24.5	5.6	.0	3.2	.0	.0	.4	66.3
TOT PCT	6.8	1.1	1.9	.1	14.9	.2	1.0	24.7	3.7	.2	3.1	.2	.4	.2	67.7
TOT OBS:	1008														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	3.6	9.9	3.4	1.0	.1		12.5	18.3		12.6	5.8	16.8	10.8	13.8	10.0	12.8	8.0
NE	.4	1.5	2.7	.8	.5	.1		5.7	18.2		4.6	5.1	3.8	9.3	7.0	5.4	6.5	4.7
E	.2	2.4	2.7	1.1	1.0	.4		7.4	18.0		7.5	5.8	8.4	5.4	6.8	11.8	7.9	4.0
SE	.1	1.8	3.0	1.4	1.2	.3		7.9	21.0		6.1	9.2	13.3	5.9	7.3	8.2	6.7	5.1
S	.1	1.4	3.5	2.8	.6	.1		8.5	19.4		9.4	5.8	6.3	7.8	7.2	5.9	12.2	11.6
SW	.3	2.1	3.4	3.8	.7	.4		12.2	19.0		12.5	11.3	10.5	17.2	10.4	12.4	12.3	10.5
W	.2	5.0	9.3	6.6	2.7	.4		23.8	19.9		26.4	28.8	20.3	22.1	25.2	23.0	20.8	22.1
NW	.3	3.1	8.0	6.4	2.7	.1		20.5	20.9		19.5	26.7	18.3	19.6	21.3	20.6	18.8	24.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALN	1.6							1.6	.0		1.4	1.4	2.4	2.0	.9	1.2	2.0	1.4
TOT OBS	34	224	411	283	111	9	1072	19.3			208	73	164	51	225	85	197	69
TOT PCT	3.2	20.9	38.3	26.4	10.4	.8		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	1.2	4.9	3.5	2.5	.3			12.5	18.3		10.9	15.3	12.7	11.6
NE	.6	2.1	1.7	.7	.2			5.7	18.2		4.7	5.1	6.6	6.0
E	1.2	3.0	1.7	1.1	.4			7.4	18.0		7.0	7.7	8.1	6.9
SE	1.0	2.6	2.1	1.8	.5			7.9	21.0		6.9	11.5	7.6	6.3
S	.6	3.2	3.1	1.4	.2			8.5	19.4		8.5	6.6	6.7	12.0
SW	.9	4.1	5.5	1.4	.3			12.2	19.0		12.2	12.1	11.0	13.9
W	2.8	6.6	9.0	4.7	.8			23.8	19.9		27.0	20.7	25.2	21.1
NW	1.3	6.1	8.2	4.1	.9			20.5	20.9		21.4	18.6	21.1	20.3
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALN	1.6							1.6	.0		1.4	2.3	1.0	1.9
TOT OBS	119	349	377	189	38	1072		19.3			281	215	310	266
TOT PCT	11.1	32.6	35.2	17.6	3.5			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1878-1970

DECEMBER

AREA 0006 CARDY STRAIT
46.6N 58.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	1.4	1.8	25.6	35.9	24.9	9.3	1.1	18.5	100.0	281
06009	2.3	2.3	19.1	42.3	20.5	11.6	1.9	19.6	100.0	215
12015	1.0	1.0	22.6	39.0	26.5	9.7	.3	18.9	100.0	310
18021	1.9	1.5	15.4	36.8	32.7	11.3	.4	20.4	100.0	266
TOT	17	17	224	411	283	111	9	19.3		1072
PCT	1.6	1.6	20.9	38.3	26.4	10.4	.8	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	2.0	1.5	3.5	6.3		6.0
NE	.6	.1	.6	3.7		6.9
E	.1	.1	1.0	6.4		7.6
SE	.2	.2	.8	6.2		7.5
S	.4	.3	1.0	6.7		7.3
SW	1.7	.8	3.1	5.5		6.1
W	2.7	1.4	7.2	13.0		6.4
NW	2.0	1.2	8.6	9.4		6.4
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.4	.7		5.6
TOT OBS	70	41	183	404	698	6.6
TOT PCT	10.0	5.9	26.2	57.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.5	.0	.0	1.9	3.2	2.4	.5	.3	.2	.0	4.3	
.7	.0	.1	.8	.9	1.3	.2	.0	.1	.0	1.1	
1.3	.1	.4	.7	1.8	1.2	.1	.4	.1	.0	1.5	
1.0	.1	.4	.4	2.3	1.4	.5	.2	.0	.0	1.1	
.9	.0	.5	.6	2.9	1.1	.4	.4	.0	.0	1.4	
.5	.0	.5	.8	1.8	2.5	.4	.4	.4	.0	3.8	
.9	.0	.8	2.9	7.4	5.5	.9	.4	.4	.0	5.1	
.4	.1	2.3	6.4	4.8	1.5	.4	.6	.0	.0	4.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.1	.1	.1	.1	.1	.0	.0	.0	1.0	
.43	.9	20	74	187	142	33	17	13	.0	166	
6.2	.4	2.9	10.6	26.8	20.3	4.7	2.4	1.9	.0	23.8	
										698	
										100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NH) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9
= OR >5000	3.4	4.2	4.3	4.3	4.3	4.3	4.3	4.3
= OR >3500	6.2	8.6	8.9	9.1	9.1	9.1	9.1	9.1
= OR >2000	19.1	28.7	29.3	29.5	29.5	29.5	29.7	29.7
= OR >1000	34.2	51.6	54.9	55.6	55.7	55.9	56.3	56.3
= OR >600	39.7	59.2	64.9	65.9	66.4	66.5	67.0	67.0
= OR >300	40.4	60.6	67.4	68.5	69.0	69.1	69.5	69.5
= OR >150	40.4	60.6	67.4	69.0	69.4	69.5	70.0	70.0
= OR >0	40.5	61.2	69.4	72.1	74.0	74.7	76.0	76.1
TOTAL	282	426	483	502	515	520	529	530

TOTAL NUMBER OF OBS: 696

PCT FREQ NH <5/8: 23.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
4.7	3.6	6.7	4.4	3.2	4.1	10.6	11.9	45.1	5.6	747

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1878-1970

DECEMBER

AREA 0006 CAROT STRAIT
46.6N 58.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	.2	.3	.0	.1	.1	.2	.1	.0	.0	1.3	
	NO PCP	.1	.0	.3	.3	.6	.1	.0	.1	.0	.0	1.5	
	TOT %	.3	.2	.6	.3	.7	.2	.2	.2	.0	.0	2.8	
1/2<1	PCP	.1	.4	.6	.2	.1	.1	.2	.2	.0	.0	2.0	
	NO PCP	.0	.1	.1	.1	.1	.0	.1	.1	.0	.0	.6	
	TOT %	.1	.5	.7	.3	.2	.1	.3	.3	.0	.0	2.6	
1<2	PCP	.0	.2	.4	.5	.4	.2	.1	.3	.0	.0	2.2	
	NO PCP	.2	.1	.2	.1	.2	.2	.1	.0	.0	.0	1.2	
	TOT %	.2	.3	.6	.6	.7	.4	.2	.3	.0	.0	3.4	
2<5	PCP	.8	.6	.4	1.0	1.0	.4	1.5	.4	.0	.1	6.3	
	NO PCP	.9	.1	.2	.6	.3	.4	.7	.4	.0	.0	3.1	
	TOT %	1.1	.7	.6	1.6	1.3	.8	2.2	.8	.0	.1	9.4	
5<10	PCP	.7	.3	.2	.7	1.0	1.2	2.7	3.3	.0	.0	10.1	
	NO PCP	2.3	1.5	1.1	2.0	1.4	3.0	6.9	1.1	.0	.5	24.6	
	TOT %	3.0	1.8	1.2	2.7	2.4	5.1	9.6	8.3	.0	.5	34.7	
10+	PCP	.9	.1	.3	.0	.0	.2	1.3	.8	.0	.1	3.2	
	NO PCP	7.4	2.0	3.2	2.5	2.9	5.3	10.6	9.1	.0	1.0	44.0	
	TOT %	7.7	2.1	3.5	2.5	2.9	5.5	12.0	9.9	.0	1.1	47.2	
TOT OBS													1003
TOT PCT													100.0
		12.5	5.7	7.3	8.0	8.2	12.2	24.5	19.9	.0	1.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	4-10	.1	*	.1	*	.3	.1	.0	.0	.0	.0	.7	
	11-21	.0	*	.3	.2	.3	.0	.1	.1	.0	.0	1.0	
	22+	.2	.2	.1	*	.1	.1	.1	*	.0	.0	.9	
	TOT %	.3	.2	.5	.3	.7	.2	.2	.2	.0	.0	2.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.0	*	.2	.0	.0	.0	.3	
	11-21	.1	.4	*	.1	.1	.0	.1	*	.0	.0	.8	
	22+	.1	.1	.7	.2	.1	*	*	.3	.0	.0	1.5	
	TOT %	.1	.5	.8	.3	.2	.1	.3	.3	.0	.0	2.6	
1<2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	.0	.0	*	.1	.1	.0	.0	.1	.0	.0	.3	
	11-21	.1	.2	.2	*	.4	.2	.1	.0	.0	.0	1.2	
	22+	.1	.1	.4	.5	.2	.1	.1	.3	.0	.0	1.7	
	TOT %	.2	.3	.6	.6	.7	.4	.2	.4	.0	.0	3.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.2	.3	*	.3	.5	*	.0	.0	1.7	
	11-21	.1	.1	.2	.4	.5	.3	.4	.2	.0	.0	2.2	
	22+	.9	.4	.2	.8	.7	.2	1.2	.7	.0	.0	5.1	
	TOT %	1.1	.7	.6	1.6	1.2	.8	2.1	1.0	.0	.1	9.1	
5<10	0-3	.1	.0	.0	.1	.0	.0	.0	.1	.0	.5	.8	
	4-10	1.0	.4	.5	.5	.1	.4	2.1	1.5	.0	.0	6.6	
	11-21	1.0	1.0	.5	1.0	.8	2.1	2.6	2.7	.0	.0	11.8	
	22+	.8	.3	.3	1.1	1.5	2.4	4.6	4.0	.0	.0	14.9	
	TOT %	2.9	1.7	1.2	2.8	2.4	4.9	9.4	8.3	.0	.5	34.0	
10+	0-3	.3	*	.2	.0	.1	.2	.2	.1	.0	1.0	2.2	
	4-10	2.3	1.0	1.5	.9	.8	1.3	2.3	1.5	.0	.0	11.5	
	11-21	2.6	1.0	1.5	1.4	1.3	2.5	6.0	4.8	.0	.0	21.1	
	22+	2.5	.2	.5	.3	.8	1.6	3.5	4.0	.0	.0	13.5	
	TOT %	7.8	2.2	3.7	2.5	3.0	5.6	11.9	10.5	.0	1.0	48.3	
TOT OBS													1052
TOT PCT													100.0
		12.5	5.7	7.4	8.0	8.2	12.0	24.0	20.6	.0	1.6	100.0	

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1878-1970

DECEMBER

AREA 0006 CABOT STRAIT
46.0N 98.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	6.3	.6	4.0	10.2	23.3	23.3	4.0	.6	.0	.0	72.2	27.8	176
06009	7.4	.7	5.4	12.8	22.3	20.3	3.4	1.4	.0	.0	73.6	26.4	148
12015	5.9	.5	.5	10.2	27.8	20.3	8.0	2.1	2.1	.0	77.5	22.5	187
18021	5.2	.0	2.1	9.3	32.0	18.6	3.1	5.2	4.6	.0	79.9	20.1	194
TOT PCT	43 6.1	3 .4	20 2.8	74 10.5	188 26.7	145 20.6	33 4.7	17 2.4	13 1.8	0 .0	536 76.0	169 24.0	705 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.9	2.9	3.4	7.9	36.2	47.0	279
06009	3.3	2.4	3.3	11.4	28.9	50.7	211
12015	2.6	2.3	2.3	6.9	36.5	49.3	304
18021	7.3	2.6	4.2	10.9	33.6	46.4	265
TOT PCT	28 2.6	27 2.5	35 3.3	96 9.1	362 34.2	511 48.3	1039 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL OBS
00003	6.4	12.7	26.6	46.8	26.6	173
06009	7.5	16.4	32.9	41.8	25.3	146
12015	6.0	7.1	21.2	56.0	22.8	184
18021	5.2	6.7	22.8	59.1	18.1	193
TOT PCT	43 6.2	72 10.3	177 25.4	359 51.6	160 23.0	696 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
50/54	.0	.0	.0	.0	.0	.2	.4	.2	4	.7
45/49	.0	.0	.0	.0	.5	1.3	1.5	2.9	34	6.2
40/44	.0	.0	.2	.0	1.6	4.0	4.5	8.0	101	18.4
35/39	.0	.0	.0	.7	2.5	6.2	7.5	11.6	157	28.5
30/34	.0	.0	.0	1.3	5.3	8.2	8.0	7.3	165	30.0
25/29	.0	.0	.0	.2	1.1	2.2	2.5	3.3	51	9.3
20/24	.0	.0	.2	.0	.4	.4	1.5	2.2	25	4.5
15/19	.0	.0	.0	.0	.0	.9	.2	.9	11	2.0
10/14	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL PCT	0 .0	0 .0	2 .4	12 2.2	63 11.5	129 23.5	143 26.0	201 36.5	590 100.0	

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
.0	.0	.2	.0	.5	.0	.0	.0	.0	.0
.0	.3	.5	1.6	1.4	1.0	1.0	.5	.0	.0
1.0	.1	1.8	2.7	3.2	4.0	2.7	2.1	.0	.7
3.3	1.9	2.5	3.4	2.1	3.1	7.7	4.0	.0	.5
6.3	1.6	1.6	.7	1.0	3.0	9.0	6.7	.0	.0
1.2	.2	.5	.2	.5	.7	2.7	3.1	.0	.2
.3	.0	.0	.0	.0	.0	2.2	1.6	.0	.4
.0	.0	.0	.0	.0	.0	1.2	.8	.0	.0
.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
12.0	4.1	7.2	8.6	8.8	11.9	26.7	18.8	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	51	50	46	35	21	16	15	34.5	283
06009	56	50	45	34	23	18	13	34.5	212
12015	57	48	45	34	21	16	14	34.0	317
18021	56	48	45	35	23	16	15	34.9	265
TOT	57	50	45	35	22	16	13	34.5	1077

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.5	9.9	24.7	27.8	35.2	83	162
06009	.0	3.5	9.6	21.9	31.6	33.3	83	114
12015	.0	2.8	10.6	22.5	19.0	45.1	85	142
18021	.0	1.5	16.4	23.9	26.1	32.1	82	134
TOT	0	14	64	129	143	202	83	552

DECEMBER

PERIOD: (PRIMARY) 1946-1970
(OVER-ALL) 1978-1970

AREA 0006 CABOT STRAIT
46.6N 58.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	6	.0	.8
7/8	.0	.0	.0	.0	.0	.0	.0	.4	.7	.3	.0	12	.3	1.3
6	.0	.0	.0	.0	.0	.0	.0	.3	.8	.1	.0	9	.0	1.2
5	.0	.0	.0	.0	.0	.0	.4	.7	.4	.0	.0	11	.3	1.2
4	.0	.0	.0	.0	.0	.0	.5	1.6	.5	.0	.0	20	.4	2.2
3	.0	.0	.0	.0	.0	.1	1.7	.7	.7	.0	.0	24	.5	2.6
2	.0	.0	.0	.0	.0	.8	1.2	1.6	.5	.0	.0	31	.4	3.7
1	.0	.0	.0	.0	.0	.1	1.2	1.0	.3	.0	.0	20	.0	2.6
0	.0	.0	.0	.0	.1	.5	3.8	1.3	.5	.0	.1	49	.5	5.9
-1	.0	.0	.0	.0	.3	1.6	2.6	1.0	.1	.0	.0	43	.1	5.5
-2	.0	.0	.0	.0	.8	2.9	1.3	1.8	.0	.0	.1	53	.3	6.6
-3	.0	.0	.0	.0	.7	2.6	2.0	.4	.1	.0	.0	44	.0	5.7
-4	.0	.0	.0	.0	1.7	3.9	1.3	.1	.0	.0	.0	54	.1	6.9
-5	.0	.0	.0	.0	1.8	2.9	2.0	.1	.0	.0	.0	52	.0	6.8
-6	.0	.0	.0	.5	3.1	3.4	.7	.1	.0	.0	.0	60	.0	7.8
-7/-8	.0	.0	.0	1.6	5.9	2.5	.4	.3	.0	.0	.0	81	.0	10.6
-9/-10	.0	.0	.3	4.0	4.0	1.6	.3	.0	.0	.0	.0	78	.0	10.2
-11/-13	.0	.3	1.4	3.0	2.1	.9	.0	.0	.0	.0	.0	59	.0	7.7
-14/-16	.4	.3	1.0	1.2	.5	.5	.1	.0	.0	.0	.0	32	.1	4.0
-17/-19	.0	.8	.8	.3	.1	.0	.0	.0	.0	.0	.0	15	.0	2.0
-20/-22	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	1.0
-23/-25	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.8
TOTAL	10	17	27	82	162	186	148	87	38	8	2	767	23	744
PCT	1.3	2.2	3.5	10.7	21.1	24.3	19.3	11.3	5.0	1.0	.3	100.0	3.0	97.0

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.7	.0	.0	.0	.0	2.7	.0	.3	.8	.0	.0	.0	1.2
3-4	.0	2.3	.3	.3	.0	.0	2.9	.0	.5	.2	.0	.0	.0	.7
5-6	.0	.3	1.9	.4	.0	.0	2.6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	1.7	2.3	.4	.0	4.4	.0	.0	.4	.2	.0	.0	.6
8-9	.0	.0	.3	.0	.3	.0	.6	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.8	.6	.3	1.8	.0	.0	.0	.0	.2	.1	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.4	4.2	5.6	1.7	.3	18.2	.0	.8	1.8	.3	.3	.1	3.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.6	.4	.0	.0	.0	1.1	.0	.5	.5	.0	.0	.0	1.1
3-4	.0	.4	1.4	.0	.0	.0	1.8	.0	.4	1.1	.5	.0	.0	2.0
5-6	.0	.4	1.2	.0	.0	.0	1.6	.0	.0	.4	.8	.8	.0	2.1
7	.0	.0	.0	.0	.7	.0	.7	.0	.0	.4	.0	.1	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4
17-19	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	2.9	.3	1.6	.0	7.0	.0	1.1	2.4	1.8	1.4	.0	6.6

PERIOD: (OVER-ALL) 1963-1970

DECEMBER

AREA 0006 CABOT STRAIT
46.0N 58.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.8	.0	.0	.0	1.8	.4	.1	.2	.0	.0	.0	.7
3-4	.0	.0	2.0	1.9	.0	.0	3.9	.0	.1	3.4	.5	.0	.0	4.0
5-6	.0	.0	.4	.7	.0	.0	1.2	.0	.1	2.1	.2	.0	.0	2.4
7	.0	.0	.0	.7	.0	.0	.7	.0	.4	1.3	2.0	.0	.0	3.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.1	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.4	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	4.2	3.4	.0	.4	8.0	.4	.7	8.0	3.2	.6	.0	12.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	2.1	1.7	.0	.0	.0	3.8	.0	1.6	.4	.0	.0	.0	7.0	
3-4	.0	1.2	2.4	.3	.0	.0	3.9	.0	.1	5.3	.6	.0	.0	6.0	
5-6	.0	.3	1.7	2.0	.0	.0	4.0	.0	.1	.5	1.3	.0	.0	1.9	
7	.0	.0	.6	1.7	.0	.0	2.3	.0	.0	.6	1.9	.0	.0	2.5	
8-9	.0	.0	1.6	.4	.7	.0	2.7	.0	.0	.6	1.3	.1	.0	1.8	
10-11	.0	.0	.7	.7	.3	.0	1.8	.0	.0	.4	.5	.9	.0	1.9	
12	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.5	.0	.4	.9	
13-16	.0	.0	.0	.0	1.6	.0	1.6	.0	.0	.0	.4	1.4	.0	1.8	
17-19	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.6	8.7	5.9	3.7	.0	21.8	.0	2.0	7.7	6.3	2.3	.4	19.1	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.5	2.1	.0	.0	.0	.0	4.6	
1-2	.8	8.3	5.8	.0	.0	.0	15.0	
3-4	.0	5.0	15.8	4.2	.0	.0	25.0	
5-6	.0	1.3	8.3	5.4	.8	.0	15.8	
7	.4	.4	5.0	8.8	1.3	.0	15.8	
8-9	.0	.0	3.3	1.7	1.3	.0	6.3	
10-11	.0	.0	1.3	2.5	1.7	.0	5.4	
12	.0	.0	.0	2.5	.0	.4	2.9	
13-16	.0	.0	.0	1.7	4.2	.4	6.3	
17-19	.0	.0	.0	.0	1.3	.0	1.3	
20-22	.0	.0	.0	.0	1.3	.4	1.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.8	17.1	39.6	24.7	11.7	1.3	100.0	240

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	5.1	9.8	7.9	4.3	1.9	.6	.6	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	150	5
6-7	.0	1.3	4.0	4.3	6.0	3.6	3.4	1.1	1.7	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	122	7
8-9	.0	.0	.6	1.1	3.2	4.7	2.8	3.2	3.8	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	94	10
10-11	.0	.0	.4	.4	.6	.6	.6	.9	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	10
12-13	.0	.0	.4	.0	.0	.0	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
>13	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	5	17
INDET	1.3	1.3	2.6	2.8	1.9	1.1	1.1	.6	1.5	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	69	7
TOTAL	9	36	84	77	75	57	42	30	43	10	6	1	0	0	0	0	0	0	0	470	7
PCT	1.9	7.7	17.9	16.4	16.0	12.1	8.9	6.4	9.1	2.1	1.3	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1971
(OVER-ALL) 1860-1971

ANNUAL

AREA 0008 CABOT STRAIT
46.7N 56.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG PCPN	FGG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	
N	4.1	1.0	2.6	.1	7.9	.1	.1	13.1	1.9	.0	3.8	.4	.5	.1	76.2
NE	9.0	1.2	4.2	.0	7.4	.1	.0	21.0	2.7	.2	10.8	.3	.6	.1	64.5
E	14.6	1.3	6.3	.4	6.8	.4	.4	28.0	2.5	.2	17.2	.2	1.2	.0	50.8
SE	14.8	1.4	5.0	.3	5.9	.1	.1	25.6	2.7	.3	21.1	.8	2.0	.0	47.6
S	9.1	1.4	4.2	.0	4.8	.0	.3	18.6	1.9	.4	19.8	.6	1.8	.0	57.0
SW	6.7	1.4	1.4	.1	6.0	.2	.1	13.3	2.2	.2	14.1	.5	1.7	.2	67.9
W	1.6	1.2	.7	.1	10.1	.0	.2	13.4	2.8	.1	6.7	.3	1.7	.1	74.9
NW	1.7	1.2	.7	.0	9.1	.2	.3	12.6	2.5	.1	4.9	.3	.9	.2	78.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5	1.6	2.9	.0	3.3	.0	.0	10.9	.4	.0	16.1	.4	3.5	.0	68.7
TOT PCT	6.1	1.3	2.5	.1	7.7	.1	.2	17.1	2.4	.2	12.2	.4	1.4	.1	66.2
TOT OBS: 16518															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG PCPN	FGG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	
00003	6.0	1.0	2.8	.2	8.1	.0	.2	17.4	1.8	.3	11.8	.5	1.2	.2	67.0
06009	7.8	1.5	2.6	.2	8.0	.2	.2	19.3	3.4	.5	11.1	.6	.8	.0	64.4
12015	5.5	1.5	2.4	.1	7.4	.1	.2	16.3	1.9	.1	13.9	.4	1.5	.0	66.0
18021	5.5	1.0	2.3	.0	7.4	.1	.1	15.9	2.8	.0	11.6	.3	1.8	.1	67.3
TOT PCT	6.1	1.3	2.5	.1	7.7	.1	.2	17.1	2.4	.2	12.3	.4	1.4	.1	66.2
TOT OBS: 16936															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	.5	3.0	4.2	2.0	.6	.0	.0	10.2	15.6	10.9	11.3	10.2	9.1	10.1	9.3	10.3	9.7	
NE	.4	2.3	2.6	1.0	.3	.0	.0	6.7	14.4	6.5	5.3	7.3	7.7	7.6	5.9	6.1	6.0	
E	.4	2.8	3.5	1.6	.6	.1	.0	9.0	16.7	8.2	9.2	8.6	8.2	8.9	13.3	8.5	6.8	
SE	.5	3.2	3.3	1.4	.4	.1	.0	8.9	15.9	8.4	9.2	8.7	9.0	9.2	8.7	9.7	8.8	
S	.8	4.1	5.2	1.9	.4	.0	.0	12.4	15.0	13.0	13.1	12.3	12.7	11.7	9.9	14.0	12.4	
SW	.7	5.0	6.3	2.3	.4	.1	.0	14.8	15.2	14.8	15.0	15.4	17.8	16.0	13.3	13.4	14.2	
W	.6	4.8	7.5	4.2	1.7	.3	.0	19.0	17.4	19.0	19.4	18.4	17.7	17.8	20.8	19.8	22.1	
NW	.5	4.2	4.7	3.9	1.2	.1	.0	16.5	17.3	17.0	15.6	16.3	15.1	15.9	16.8	16.6	18.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.5						.0	2.5	.0	2.2	2.0	2.9	2.8	2.9	2.1	2.7	1.7	
TOT OBS							18043		15.9	3376	1085	2361	1044	3630	2027	3184	1936	
TOT PCT	6.7	29.3	39.7	18.4	5.7	.7		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	06	12	18	21
N	1.5	4.3	3.1	1.2	.2	.0	10.2	15.6	11.0	9.9	9.8	10.1		
NE	1.3	2.9	1.7	.6	.1	.0	6.7	14.4	6.2	7.3	7.0	6.1		
E	1.5	3.8	2.4	1.1	.2	.0	9.0	16.7	8.4	8.7	10.6	8.0		
SE	1.6	4.1	2.2	.8	.2	.0	8.9	15.9	8.6	8.9	9.1	9.4		
S	2.3	5.9	3.1	1.0	.1	.0	12.4	15.0	13.0	12.6	11.0	13.5		
SW	2.5	7.0	4.1	.9	.2	.0	14.8	15.2	14.9	16.0	14.9	13.6		
W	2.5	7.2	5.7	2.8	.7	.0	19.0	17.4	19.2	18.1	18.8	19.8		
NW	1.9	6.2	5.5	2.5	.4	.0	16.5	17.3	16.7	15.8	16.3	17.1		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.5					.0	2.5	.0	2.1	2.8	2.6	2.4		
TOT OBS							18043		15.9	4461	3403	5657	4320	
TOT PCT	17.7	41.4	27.8	11.0	2.0			100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1924-1971
(OVER-ALL) 1860-1971

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	2.1	4.4	31.0	38.4	18.1	5.4	.5	15.5	100.0	4461
0600	2.8	3.6	30.2	40.4	17.5	4.9	.6	15.5	100.0	3405
1200	2.6	5.2	28.9	38.8	18.3	5.2	1.0	15.9	100.0	3657
1800	2.4	3.3	27.4	40.0	19.5	6.8	.7	16.6	100.0	4520
TOT								15.9		18043
PCT	2.5	4.2	29.3	39.2	18.4	5.7	.7		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	1.1	2.7	4.3		5.3
NE	.9	.5	1.2	3.9		6.2
E	.7	.3	1.2	7.0		7.1
SE	.7	.3	1.4	6.1		6.9
S	2.0	1.0	2.3	7.0		6.2
SW	3.6	1.4	3.1	6.1		9.4
W	5.1	2.4	5.2	6.8		4.9
NW	4.4	2.1	5.0	5.2		4.9
VAR	.0	.0	.0	.0		.0
CALM	.8	.3	.5	1.0		4.7
TOT OBS					12020	5.7
TOT PCT	20.6	9.5	22.5	47.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.8	.7	.3	.9	1.7	1.2	.3	.2	.3	.1	4.4	
NE	.8	.1	.1	.7	1.3	1.0	.2	.1	.2	.1	2.0	
E	2.2	.1	.4	1.1	1.5	1.0	.3	.3	.4	.1	1.8	
SE	2.0	.7	.3	.9	1.4	.9	.2	.2	.3	.2	2.1	
S	2.3	.7	.2	.7	1.7	1.1	.5	.4	.4	.4	4.4	
SW	1.7	.6	.3	.8	1.8	1.3	.4	.4	.4	.2	6.8	
W	1.1	.1	.4	1.2	3.1	2.6	.7	.5	.5	.5	8.9	
NW	.7	.1	.3	1.0	2.6	2.3	.6	.5	.5	.2	7.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.6	.1	.3	.2	.6	.1	.1	.6	1.3	
TOT OBS												12020
TOT PCT	12.0	.9	7.3	7.5	13.6	11.5	3.2	2.7	3.1	1.6	39.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.8	4.2	4.6	4.6	4.7	4.7	4.7	4.7
>5000	4.0	6.5	7.2	7.3	7.3	7.4	7.4	7.4
>3500	5.9	9.3	10.3	10.5	10.5	10.5	10.6	10.6
>2000	12.0	19.6	21.5	21.9	22.0	22.0	22.1	22.1
>1000	19.1	32.1	36.1	37.1	37.4	37.5	37.6	37.7
>600	21.8	37.0	42.7	44.2	44.7	45.0	45.2	45.2
>300	22.1	38.0	44.3	46.1	46.8	47.2	47.4	47.5
>150	22.2	38.2	44.6	46.5	47.4	48.0	48.3	48.4
>0	22.3	38.5	46.3	50.1	52.9	55.4	59.3	60.4

TOTAL NUMBER OF OBS: 12167

PCT FREQ NM <5/8: 39.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.1	7.4	7.6	5.5	4.4	4.5	7.6	8.3	9.5	11.0	12773

PERIOD: (PRIMARY) 1926-1971
(OVER-ALL) 1860-1971

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.9	.7	.3	.3	.3	.7	.2	.2	.0	*	2.0	
	NO PCP	.7	.4	.7	1.2	1.7	1.4	.5	.2	.0	.3	6.7	
	TOT %	.6	.6	1.0	1.5	2.0	1.6	.7	.4	.0	.3	8.7	
1/2<1	PCP	.7	.2	.2	.2	.2	.7	.2	.2	.0	*	1.4	
	NO PCP	.1	.1	.4	.3	.4	.3	.2	.1	.0	.1	2.1	
	TOT %	.7	.3	.6	.5	.6	.4	.4	.3	.0	.1	3.4	
1<2	PCP	.7	.7	.5	.4	.2	.7	.4	.2	.0	*	2.4	
	NO PCP	.1	.1	.3	.3	.2	.7	.7	.1	.0	*	1.3	
	TOT %	.7	.3	.8	.6	.5	.4	.6	.4	.0	.1	3.9	
2<5	PCP	.9	.4	.8	.6	.7	.4	.7	.5	.0	.1	4.7	
	NO PCP	.3	.7	.5	.5	.8	.6	.7	.4	.0	.1	4.2	
	TOT %	.8	.6	1.3	1.2	1.4	1.0	1.4	.9	.0	.1	8.9	
5<10	PCP	.4	.4	.6	.6	.6	.7	1.0	1.0	.0	*	5.4	
	NO PCP	2.5	1.6	1.3	2.0	2.8	4.1	4.9	3.9	.0	.4	24.0	
	TOT %	3.0	2.0	2.3	2.6	3.4	4.8	5.9	4.9	.0	.5	29.3	
10+	PCP	.1	.1	.2	.1	.1	.1	.5	.4	.0	*	1.6	
	NO PCP	9.4	2.9	2.8	2.5	4.4	6.7	9.6	9.1	.0	1.3	44.3	
	TOT %	9.6	3.0	3.0	2.6	4.5	6.3	10.1	9.5	.0	1.4	45.8	
TOT OBS		16533											
TOT PCT		10.3	6.7	9.1	9.0	12.4	14.4	19.1	16.3	.0	2.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	.1	.1	.2	.1	.1	*	.0	.3	1.0	
	4-10	.2	.3	.4	.6	.7	.7	.3	.2	.0		3.3	
	11-21	.1	.1	.4	.6	.8	.6	.2	.1	.0		2.9	
	22+	.2	.1	.1	.2	.3	.2	.1	.1	.0		1.3	
	TOT %	.5	.6	1.0	1.5	2.0	1.5	.7	.4	.0	.3	8.5	
1/2<1	0-3	*	*	*	*	.1	*	*	*	.0	.1	.3	
	4-10	.1	.1	.1	.1	.2	.1	.1	.1	.0		.9	
	11-21	.1	.1	.2	.2	.2	.2	.1	.1	.0		1.2	
	22+	.1	.1	.2	.1	.1	.1	.1	.1	.0		1.0	
	TOT %	.2	.3	.6	.4	.6	.5	.4	.3	.0	.1	3.4	
1<2	0-3	*	*	*	*	*	*	.0	.0	.0	.1	.1	
	4-10	.1	.1	.1	.2	.1	.1	.2	.1	.0		.9	
	11-21	.1	.1	.3	.2	.2	.2	.1	.1	.0		1.3	
	22+	.1	.1	.4	.3	.2	.1	.3	.2	.0		1.6	
	TOT %	.2	.3	.9	.7	.5	.4	.6	.4	.0	.1	3.9	
2<5	0-3	*	*	*	*	*	*	.1	*	.0	.1	.4	
	4-10	.1	.2	.2	.3	.4	.3	.3	.1	.0		1.9	
	11-21	.3	.2	.5	.4	.5	.5	.4	.3	.0		3.1	
	22+	.3	.2	.6	.4	.5	.2	.7	.5	.0		3.4	
	TOT %	.7	.6	1.3	1.2	1.4	1.0	1.4	.9	.0	.1	8.8	
5<10	0-3	.1	.1	.1	.1	.1	.2	.1	.1	.0	.5	1.4	
	4-10	.7	.5	.7	.8	.9	1.3	1.2	1.1	.0		7.4	
	11-21	1.3	.8	1.0	.9	1.5	2.1	2.0	1.8	.0		11.4	
	22+	.8	.5	.5	.6	.7	1.1	2.4	1.4	.0		8.5	
	TOT %	2.9	2.0	2.3	2.5	3.3	4.7	5.8	4.8	.0	.5	28.7	
10+	0-3	.2	.2	.2	.1	.3	.4	.3	.3	.0	1.4	3.3	
	4-10	1.9	1.2	1.2	1.1	1.7	2.3	2.7	2.6	.0		14.8	
	11-21	2.4	1.2	1.2	1.0	2.0	2.8	4.7	4.3	.0		19.7	
	22+	1.1	.4	.5	.3	.6	1.0	2.5	2.5	.0		9.0	
	TOT %	5.6	3.0	3.1	2.6	4.6	6.6	10.2	9.7	.0	1.4	46.7	
TOT OBS		17210											
TOT PCT		10.3	6.7	9.1	8.9	12.3	14.7	19.1	16.5	.0	2.4	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	100 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	11.6	1.1	2.4	7.9	14.4	12.2	3.0	.7	1.6	1.9	56.8	43.2	2789
06009	11.8	.5	2.1	8.0	17.0	12.3	3.2	.6	1.9	1.7	59.1	40.9	2357
12015	12.8	.7	2.4	6.8	16.0	10.5	3.1	4.5	4.4	1.3	62.6	37.4	3791
18021	10.9	1.0	2.2	7.4	15.1	11.0	3.4	3.3	3.4	1.6	59.4	40.6	3453
TOT PCT	11.9	.9	2.3	7.4	15.4	11.4	3.2	2.6	3.1	1.6	59.8	40.2	12390

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	9.5	3.1	2.7	8.6	32.2	43.9	4305
06009	8.5	3.2	3.5	7.8	26.4	50.7	3318
12015	8.6	4.3	4.5	8.9	28.0	45.7	5338
18021	8.1	2.9	4.4	9.2	27.6	47.8	4477
TOT PCT	8.7	3.4	3.9	8.7	28.7	46.6	17638 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	11.9	17.0	30.6	29.1	40.3	2731
06009	12.0	16.6	29.3	32.3	38.3	2295
12015	13.0	17.4	31.1	34.0	34.9	3737
18021	11.1	15.5	29.9	32.3	37.7	3404
TOT PCT	12.2	16.8	30.4	32.1	37.5	12167 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	*	.0	*	*	.0	.0	*	
75/79	.0	*	*	*	*	*	*	.0	.1	
70/74	.0	*	*	*	.1	.2	.2	.2	.7	
65/69	.0	*	*	.1	.2	.5	.8	1.1	2.6	
60/64	.0	*	*	.1	.3	1.2	2.7	3.3	7.7	
55/59	.0	.1	.1	.3	.6	2.0	3.5	4.2	10.7	
50/54	.0	*	.1	.2	.9	1.6	2.9	4.7	10.5	
45/49	.0	.0	*	.2	.8	2.2	3.0	4.5	10.7	
40/44	*	*	.1	.2	1.1	2.1	3.1	5.2	11.8	
35/39	.0	*	*	.3	1.3	2.5	4.3	7.7	16.1	
30/34	.0	*	*	.2	1.0	2.2	4.3	7.1	14.9	
25/29	*	.0	*	.1	.7	1.6	2.5	2.7	7.7	
20/24	.0	*	*	*	.4	.7	1.2	1.4	3.8	
15/19	.0	*	*	.1	.2	.5	.8	.3	2.0	
10/14	.0	.0	.0	*	.1	.1	.2	.1	.4	
5/9	.0	.0	.0	*	*	.1	*	*	.1	
0/4	.0	.0	.0	.0	.0	.0	.0	*	*	
TOTAL PCT	*	.2	.5	2.0	7.8	17.5	29.6	42.4	10383 100.0	

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	*	*	.0	.0	.0	.0
75/79	.0	.0	.0	*	*	.1	*	*	.0	*
70/74	*	*	*	.1	.2	.2	*	.1	.0	.1
65/69	.2	.1	.1	.3	.7	.9	.3	.1	.0	*
60/64	.3	.3	.4	.8	1.6	2.1	1.1	.8	.0	.2
55/59	.8	.5	.8	1.2	2.0	1.9	1.8	1.5	.0	.3
50/54	.8	.5	.9	1.1	1.9	1.6	1.8	1.4	.0	.4
45/49	.7	.7	1.2	1.2	1.6	1.7	2.0	1.4	.0	.3
40/44	1.2	1.1	1.3	1.1	1.6	1.7	2.0	1.5	.0	.4
35/39	2.0	1.6	1.8	1.5	1.6	2.0	2.9	2.4	.0	.4
30/34	2.6	1.2	1.4	1.2	1.2	1.5	2.9	2.8	.0	.2
25/29	1.2	.5	.5	.4	.6	.7	2.1	1.7	.0	.1
20/24	.6	.4	.1	.1	.3	.3	1.3	.9	.0	.1
15/19	.1	.1	*	.0	*	.1	1.0	.6	.0	*
10/14	*	*	*	.0	*	*	.2	.2	.0	*
5/9	*	.0	.0	.0	.0	*	.1	*	.0	*
0/4	.0	.0	.0	.0	.0	.0	*	.0	.0	.0
TOTAL	10.6	6.9	8.5	8.9	13.1	14.8	19.4	15.4	.0	2.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	82	55	51	42	33	29	8	43.6	4547
06009	76	55	50	42	33	26	3	43.6	3459
12015	80	56	52	43	33	29	1	44.5	5742
18021	82	59	53	44	34	30	5	44.1	4593
TOT	82	57	52	43	33	29	1	44.0	18341

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.9	7.0	16.1	30.1	45.0	87	2850		
06009	.0	2.2	6.3	15.4	29.0	47.0	87	2171		
12015	.1	2.5	7.3	18.3	28.2	43.7	86	2930		
18021	*	4.2	10.4	20.0	30.3	35.0	83	2684		
TOT	2	303	790	1794	3091	4655	86	10635		

PERIOD: (PRIMARY) 1924-1971
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TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
330	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	*
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
23/23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	.1	.4
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2	.2	.2	.1	.2	.1	.1	.1	.1	186	.2	1.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.3	.2	.3	.2	.1	.1	.1	.1	.1	.1	278	.4	1.5
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.4	.3	.3	.5	.4	.3	.3	.1	.1	.1	.1	492	.7	2.9
6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.4	.3	.3	.4	.4	.3	.2	.1	.1	.1	.1	421	.6	2.3
5	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.5	.5	.5	.5	.5	.5	.2	.1	.1	.1	.1	658	.8	3.8
4	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.8	.7	.6	.6	.7	.6	.2	.1	.1	.1	.1	871	1.2	4.9
3	.0	.0	.0	.0	.0	.0	.0	.2	1.1	1.3	.7	.9	.8	.5	.9	.6	.3	.1	.1	.1	.1	1079	1.5	6.2
2	.0	.0	.0	.0	.0	.0	.0	.5	1.6	1.4	1.1	.9	.8	.8	1.0	.8	.3	.1	.1	.1	.1	1301	1.5	7.7
1	.0	.0	.0	.0	.0	.0	.0	.8	2.0	1.2	1.0	.8	.9	.9	1.0	.7	.2	.1	.1	.1	.1	1288	1.6	7.8
0	.0	.0	.0	.0	.0	.0	.0	1.3	1.7	1.1	.8	.8	.9	.9	1.0	.5	.1	.1	.1	.1	.1	1181	1.1	8.0
-1	.0	.0	.0	.0	.0	.0	.1	1.2	1.2	.7	.4	.5	.5	.8	.6	.3	.1	.1	.1	.1	.1	811	.7	5.9
-2	.0	.0	.0	.0	.0	.0	.1	1.2	.5	.4	.5	.5	.4	.5	.5	.3	.1	.1	.1	.1	.1	698	.6	5.3
-3	.0	.0	.0	.0	.0	.0	.8	1.0	.5	.4	.3	.4	.3	.4	.2	.1	.1	.1	.1	.1	.1	551	.3	4.4
-4	.0	.0	.0	.0	.0	.0	.8	.9	.6	.4	.3	.4	.3	.4	.2	.1	.1	.1	.1	.1	.1	485	.1	4.1
-5	.0	.0	.0	.0	.0	.2	1.0	.8	.4	.5	.3	.3	.3	.4	.2	.1	.1	.1	.1	.1	.1	459	.1	4.1
-6	.0	.0	.0	.0	.0	.2	.5	.6	.5	.3	.3	.2	.2	.2	.1	.1	.1	.1	.1	.1	.1	338	.1	3.0
-7/-8	.0	.0	.0	.0	.0	.7	1.1	.9	.5	.6	.4	.3	.2	.1	.1	.1	.1	.1	.1	.1	.1	509	.1	4.6
-9/-10	.0	.0	.0	.0	.2	.8	1.0	.5	.4	.2	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	374	.1	3.6
-11/-13	.0	.0	.0	.1	.7	.7	.5	.4	.3	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	318	.1	3.1
-14/-16	.0	.0	.0	.3	.7	.2	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	161	.1	1.8
-17/-19	.0	.0	.2	.3	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	67	.0	.8
-20/-22	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	16	.0	.2
-23/-25	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	14	.0	.2
-26/-30	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	4	.0	.1
TOTAL																						12701		
PCT	.1	.3	.8	1.9	3.0	6.3	10.3	13.2	12.0	9.1	8.7	8.1	8.6	8.5	5.7	2.2	.7	.2	.1	*	*	100.0	11.9	88.1

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.1	.8	.1	.0	.0	.0	1.1	41	.1	.7	.1	.0	.0	.0	.9
1-2	.1	1.2	.7	.0	.0	.0	1.9	1-2	.1	.8	.7	.0	.0	.0	1.5
3-6	.1	.9	1.4	.5	.1	.0	2.8	3-6	.1	.6	1.0	.1	.0	.0	1.7
5-6	.0	.1	1.1	.5	.1	.0	1.8	5-6	.0	.1	.4	.2	.0	.0	.7
7	.0	.1	.5	.5	.2	.0	1.3	7	.0	.1	.4	.2	.0	.0	.8
8-9	.0	.0	.2	.2	.1	.0	.6	8-9	.0	.0	.2	.3	.1	.0	.5
10-11	.0	.0	.1	.1	.1	.0	.3	10-11	.0	.0	.1	.3	.0	.0	.3
12	.0	.0	.0	.2	.1	.0	.4	12	.0	.0	.1	.2	.1	.0	.3
13-16	.0	.0	.0	.2	.2	.0	.4	13-16	.0	.0	.1	.1	.1	.1	.3
17-19	.0	.0	.0	.1	.1	.0	.1	17-19	.0	.0	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.0	4.1	2.3	.8	*	10.6	TOT PCT	.2	2.1	2.7	1.4	.4	*	6.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.1	.9	.2	.0	.0	.0	1.2	41	.1	.7	.2	.0	.0	.0	1.0
1-2	.1	.9	.7	.0	.0	.0	1.7	1-2	.1	1.2	1.0	.0	.0	.0	2.3
3-6	.0	.1	1.0	.3	.1	.0	1.8	3-6	.0	.7	1.3	.4	.0	.0	2.5
5-6	.0	.1	.7	.2	.1	.0	1.1	5-6	.0	.1	.8	.5	.2	.0	1.6
7	.0	.1	.2	.2	.1	.0	1.0	7	.0	.1	.4	.3	.1	.0	.7
8-9	.0	.0	.2	.2	.1	.0	.4	8-9	.0	.0	.2	.3	.1	.0	.5
10-11	.0	.0	.1	.1	.1	.0	.3	10-11	.0	.0	.1	.3	.0	.0	.3
12	.0	.0	.0	.2	.1	.0	.4	12	.0	.0	.1	.2	.1	.1	.3
13-16	.0	.0	.0	.3	.3	.0	.3	13-16	.0	.0	.0	.1	.1	.1	.3
17-19	.0	.0	.0	.1	.1	.0	.1	17-19	.0	.0	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.2	.0	.2	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.1	.1	.1	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.1	.1	.1	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.5	3.2	1.8	1.1	.1	8.8	TOT PCT	.3	2.8	3.7	1.9	.5	.1	9.2

PERIOD: (OVER-ALL) 1963-1971

ANNUAL

AREA 0006 CABOT STRAIT
46.7N 58.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.3	.9	.3	.0	.0	.0	1.5	.2	1.0	.2	.0	.0	.0	1.4	
1-2	.2	1.7	1.6	.0	.0	.0	3.5	.1	1.7	1.4	.0	.0	.0	3.2	
3-6	.0	1.1	2.8	.7	.0	.0	4.6	.1	1.1	2.6	.5	.0	.0	4.3	
5-6	.0	.3	1.4	.3	.1	.0	2.0	.0	.3	1.4	.3	.0	.0	1.9	
7	.0	.1	.4	.4	.1	.0	.9	.0	.1	.8	.6	.0	.0	1.5	
8-9	.0	.1	.3	.2	.1	.0	.6	.0	.1	.3	.2	.1	.0	.6	
10-11	.0	.0	.1	.1	.1	.0	.2	.0	.0	.1	.3	.1	.0	.6	
12	.0	.0	.1	.1	.1	.0	.1	.0	.0	.1	.1	.0	.0	.1	
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.1	.2	.1	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.1	6.7	1.8	.3	.0	13.5	.4	4.2	6.8	2.4	.4	.0	14.1	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.1	.9	.3	.0	.0	.0	1.4	.1	1.1	.2	.0	.0	.0	1.4	
1-2	.1	2.1	1.4	.0	.0	.0	3.6	.1	1.8	1.3	.0	.0	.0	3.2	
3-6	.0	1.2	2.8	.6	.0	.0	4.6	.0	.9	2.9	.7	.0	.0	4.5	
5-6	.0	.1	1.7	.7	.1	.0	2.7	.0	.1	1.7	.6	.0	.0	2.4	
7	.0	.0	.8	.8	.2	.0	1.7	.0	.1	.8	.8	.1	.0	1.8	
8-9	.0	.1	.4	.6	.3	.0	1.3	.0	.1	.3	.5	.1	.0	.9	
10-11	.0	.0	.2	.6	.2	.0	.9	.0	.0	.1	.3	.3	.0	.7	
12	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.2	.1	.0	.4	
13-16	.0	.0	.1	.5	.1	.0	1.0	.0	.0	.0	.2	.3	.0	.5	
17-19	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.1	.1	.0	.1	
20-22	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.1	
23-25	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.4	7.6	4.1	1.9	.2	18.4	.3	4.0	7.3	3.3	1.1	.2	16.1	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	7.0	1.5	.0	.0	.0	12.4	
1-2	1.0	11.2	8.7	.0	.0	.0	20.9	
3-6	.3	7.1	15.7	9.7	.0	.0	26.7	
5-6	.0	1.2	9.1	3.3	.6	.0	14.2	
7	.0	.3	4.2	4.3	.7	.0	9.5	
8-9	.0	.2	1.8	2.3	.8	.0	5.1	
10-11	.0	.1	.7	2.1	.8	.0	3.6	
12	.0	.1	.1	1.2	.6	.1	2.1	
13-16	.0	.0	.1	1.6	1.7	.1	3.5	
17-19	.0	.0	.0	.2	.6	.1	.9	
20-22	.0	.0	.0	.1	.5	.2	.8	
23-25	.0	.0	.0	.0	.1	.1	.3	
26-32	.0	.0	.0	.0	.1	.1	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.2	27.0	41.8	18.8	6.4	.7	100.0	3614

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.5	10.5	15.3	7.8	3.5	.9	.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2986	4
6-7	.1	1.2	5.1	6.3	5.3	3.0	2.0	.7	1.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	1765	6
8-9	.0	.5	1.4	1.6	2.4	1.6	1.4	1.6	.4	.2	.1	.1	.2	.0	.0	.0	.0	.0	.0	891	9
10-11	.0	.2	.5	.5	.6	.7	.4	.4	.6	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	285	9
12-13	.0	.0	.2	.1	.1	.2	.1	.1	.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	85	9
>13	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	49	13
INDET	3.3	2.3	3.0	1.5	1.3	.7	.5	.4	.5	.1	.2	.0	.0	.1	.0	.0	.0	.0	.0	961	4
TOT PCT	5.9	14.8	25.5	17.8	13.2	7.1	5.4	3.3	4.2	1.2	.8	.3	.4	.1	.0	.0	.0	.0	.0	7022	5

PERIOD: (PRIMARY) 1924-1971
(OVER-ALL) 1860-1971

TABLE 20

AREA 0006 CABOT STRAIT
46.7N 58.4W

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	4	*
71/72	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	3	*
69/70	.0	.0	.0	.0	.0	.0	.1	.8	.1	.0	.0	.0	11	.1
67/68	.0	.0	.0	.0	.0	.0	.4	3.1	.3	.0	.0	.0	42	.3
65/66	.0	.0	.0	.0	.0	.0	.8	6.2	1.4	.1	.0	.0	90	.6
63/64	.0	.0	.0	.0	.0	.0	1.7	19.8	4.0	.2	.0	.0	272	1.9
61/62	.0	.0	.0	.0	.1	.0	3.8	17.6	9.5	.3	.0	.0	346	2.5
59/60	.0	.0	.0	.0	.1	.2	7.0	19.7	16.5	1.5	.1	.0	512	3.6
57/58	.0	.0	.0	.0	*	.2	13.4	15.7	18.1	2.3	.1	.0	586	4.2
55/56	.0	.0	.0	.0	*	.8	15.9	10.1	17.2	10.3	.5	.2	672	4.7
53/54	.0	.0	.0	.0	.1	1.6	16.1	5.1	14.0	15.4	1.1	.1	666	4.7
51/52	.0	.0	.0	.0	.1	3.4	11.0	1.1	8.8	21.2	4.4	.2	653	4.6
49/50	.0	.0	.0	.0	.3	8.9	13.4	.1	5.4	18.1	9.4	.6	770	5.4
47/48	.0	.0	.0	.2	.4	11.4	9.9	.0	2.8	14.7	14.3	.8	774	5.3
45/46	.0	.2	.0	.2	1.3	18.9	4.0	.1	.9	9.6	22.5	3.5	899	6.3
43/44	.7	1.2	.0	.4	3.4	19.9	1.1	.2	.1	3.6	19.0	9.2	853	6.0
41/42	1.9	.8	.3	.8	11.1	19.6	.5	.2	.7	1.8	11.1	13.9	929	6.6
39/40	3.1	.5	.6	1.4	18.8	11.0	.1	.0	.2	.6	10.3	23.7	1021	7.2
37/38	12.9	4.1	1.4	6.3	28.0	3.7	.0	.0	.0	.1	5.6	28.7	1227	8.7
35/36	27.7	11.8	5.7	19.8	20.1	.4	.1	.0	.1	.1	.8	11.6	1104	7.8
33/34	30.4	21.8	19.3	31.7	12.3	.2	.1	.0	.0	.1	.9	5.6	1170	8.2
31/32	18.8	35.7	32.8	24.2	3.3	.1	.0	.0	.0	.0	.0	1.3	923	6.5
29/30	5.0	23.2	38.7	14.7	.6	.0	.0	.0	.0	.0	.0	.4	616	4.3
27/28	.0	1.2	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	20	.1
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	709	851	664	1056	2318	1671	1350	1005	1175	1241	1495	834	14163	100.0
MEAN	34.5	32.4	31.5	33.4	37.6	44.3	53.6	60.1	56.2	50.5	44.5	39.0	43.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

HR	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1010	1012	1010	1013	1011	1015	1010	1011	1011	822
FEB	1008	1009	1010	1013	1008	1009	1007	1008	1008	898
MAR	1011	1011	1011	1016	1016	1010	1011	1009	1011	1175
APR	1013	1012	1014	1014	1019	1014	1014	1012	1019	1428
MAY	1013	1014	1014	1016	1014	1016	1013	1013	1014	2214
JUN	1019	1013	1013	1012	1014	1015	1014	1013	1014	1718
JUL	1015	1016	1015	1016	1019	1015	1014	1015	1015	1449
AUG	1013	1014	1012	1015	1014	1013	1014	1014	1014	1186
SEP	1017	1017	1015	1017	1016	1018	1015	1016	1016	1319
OCT	1015	1017	1014	1014	1015	1017	1015	1017	1015	1451
NOV	1015	1014	1015	1014	1016	1017	1015	1015	1015	1517
DEC	1013	1011	1011	1011	1011	1012	1012	1011	1012	953
ANN	1013	1013	1013	1014	1013	1014	1013	1013	1013	16120
OBS	3065	775	2383	722	3299	1682	3189	1009		

PERCENTILES

HR	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	970	976	986	1002	1012	1021	1031	1036	1043
FEB	971	976	985	998	1009	1018	1028	1033	1038
MAR	970	979	989	1001	1011	1019	1030	1035	1040
APR	978	982	995	1006	1015	1021	1029	1035	1041
MAY	976	993	998	1008	1014	1020	1027	1031	1036
JUN	987	995	1001	1009	1014	1019	1024	1027	1031
JUL	992	999	1004	1011	1014	1019	1024	1028	1031
AUG	993	998	1003	1010	1014	1018	1023	1027	1032
SEP	967	998	1003	1011	1017	1022	1028	1030	1038
OCT	975	989	997	1010	1016	1022	1028	1032	1035
NOV	970	983	994	1007	1016	1024	1033	1038	1043
DEC	968	981	990	1003	1013	1020	1028	1032	1040

PERIOD: (PRIMARY) 1965-1970
(OVER-ALL) 1882-1970

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	4.1	.0	.0	.0	15.1	.0	.0	19.2	.0	.0	5.5	.0	.0	.0	75.3
NE	2.0	.0	.0	.0	32.0	.0	.0	42.0	.0	.0	4.0	.0	.0	.0	54.0
E	.0	.0	.0	.0	47.2	.0	.0	47.2	.0	.0	18.9	.0	.0	.0	34.0
SE	2.4	.0	.0	.0	39.0	.0	.0	39.0	.0	.0	.0	.0	.0	.0	61.0
S	9.7	.0	.0	.0	32.3	.0	.0	32.3	22.6	.0	.0	.0	.0	.0	45.2
SW	.0	.0	.0	.0	19.1	.0	.0	19.1	4.3	.0	8.5	.0	.0	.0	68.1
W	.0	.0	.0	.0	16.7	.0	.0	16.7	7.3	.0	.0	.0	.0	.0	76.0
NW	2.1	.0	.0	.0	19.6	.0	.0	21.7	2.1	.0	8.5	.0	.0	.0	67.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.1	.0	.0	.0	24.0	.7	.0	26.0	3.4	.0	6.2	.0	.0	.0	64.4
TOT OBS:	146														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	.0	.0	.0	.0	22.2	.0	.0	22.2	5.6	.0	8.3	.0	.0	.0	63.9
0600	.0	.0	.0	.0	32.0	.0	.0	32.0	4.0	.0	.0	.0	.0	.0	64.0
1215	6.8	.0	.0	.0	20.5	2.3	.0	27.3	4.5	.0	6.8	.0	.0	.0	61.4
1800	.0	.0	.0	.0	24.4	.0	.0	24.4	.0	.0	7.3	.0	.0	.0	68.3
TOT PCT TOT OBS	2.1 146	.0	.0	.0	24.0	.7	.0	26.0	3.4	.0	6.2	.0	.0	.0	64.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	.0	7.0	5.1	1.2	.0		13.2	22.6		24.2	12.5	19.2	.0	4.4	15.9	10.9	.0
NE	.0	2.6	2.3	2.6	.0	.7		8.3	21.1		.8	.0	8.7	.0	14.7	2.3	14.1	2.5
E	.0	.0	4.5	3.8	.5	.0		8.8	21.0		5.8	.0	7.7	.0	8.1	15.9	10.2	17.5
SE	.7	.7	2.8	1.8	.8	.0		6.8	20.7		4.2	12.5	15.4	.0	4.4	11.4	.8	10.0
S	.0	.7	1.7	2.8	.5	.0		5.1	22.0		5.8	12.5	3.8	.0	11.8	.0	.0	.0
SW	.0	2.8	2.0	2.8	.8	.0		8.4	19.0		4.2	.0	5.8	.0	8.8	13.6	15.6	5.0
W	.0	2.5	6.5	6.3	1.3	.0		16.6	21.1		20.8	12.5	17.3	.0	21.3	11.4	10.9	12.5
NW	1.3	3.3	10.9	11.8	3.5	1.3		32.1	22.9		34.2	50.0	18.3	.0	26.5	29.5	37.5	52.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0		.0	.0	3.8	.0	.0	.0	.0	.0
TOT OBS	4	19	56	56	13	3	151		21.6		90	8	26	0	34	11	32	10
TOT PCT	2.6	12.6	37.1	37.1	8.6	2.0	100.0				100.0	100.0	100.0	.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	.0	4.1	5.3	3.1	.7		13.2	22.6	21.7	19.2	7.2	8.3
NE	.0	4.1	1.3	2.2	.7		8.3	21.1	.7	8.7	11.7	11.3
E	.0	3.1	5.1	.5	.0		8.8	21.0	4.6	7.7	10.0	11.9
SE	.7	2.0	3.3	.2	.7		6.8	20.7	5.9	15.4	6.1	3.0
S	.7	.7	2.8	.5	.5		5.1	22.0	7.2	3.8	8.9	.0
SW	1.3	2.5	2.3	2.2	.2		8.4	19.0	3.3	5.8	10.0	13.1
W	.7	4.6	7.3	4.0	.0		16.6	21.1	19.1	17.3	18.9	11.3
NW	2.6	6.6	14.2	6.0	2.6		32.1	22.9	37.5	18.3	27.2	41.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.7						.7	.0	.0	3.8	.0	.0
TOT OBS	10	42	63	28	8	151		21.6	38	26	45	42
TOT PCT	6.6	27.8	41.7	18.5	5.3	100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1965-1970
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00L03	.0	2.6	5.3	57.9	28.9	5.3	.0	19.6	100.0	38
06L09	3.8	3.8	7.7	38.5	30.8	11.5	3.8	22.0	100.0	26
12L15	.0	.0	15.6	31.1	46.7	2.2	4.4	22.1	100.0	43
18L21	.0	2.4	19.0	23.8	38.1	16.7	.0	22.4	100.0	42
TOT	1	3	19	56	56	13	3	21.6		151
PCT	.7	2.0	12.6	37.1	37.1	8.6	2.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	.9	3.4	3.0		5.8
NE	.3	.0	1.2	3.4		6.7
E	.9	.0	.0	10.7		7.3
SE	.0	1.5	1.2	3.4		6.5
S	1.2	.9	1.2	.0		3.3
SW	1.2	1.2	4.0	.6		4.9
W	3.0	2.1	4.9	6.7		5.5
NH	12.8	1.8	6.1	21.0		5.2
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	17	7	18	40	82	5.6
TOT PCT	20.7	8.5	22.0	48.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	1.2	.0	.0	.0	.0	2.1	.0	5.2	
NE	1.2	.0	2.4	.0	.3	.0	.0	.0	1.3	.0	.6	
E	4.0	1.2	.0	.0	.9	1.2	.0	.0	1.2	.0	3.0	
SE	3.4	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.5	
S	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	2.1	
SW	.0	.0	.0	.0	.6	1.2	.0	.0	.0	.0	5.2	
W	.0	.0	.0	.0	6.7	.9	.0	.0	.0	.0	9.1	
NH	2.4	.0	.0	3.7	8.5	5.2	.0	.0	1.2	.0	20.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	17	7	18	40	82	100.0						82
TOT PCT	11.0	1.7	2.4	4.9	17.1	8.5	.0	.0	6.1	1.2	47.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	3.7	7.4	7.4	7.4	7.4	7.4	7.4
>5000	.0	3.7	7.4	7.4	7.4	7.4	7.4	7.4
>3500	.0	3.7	7.4	7.4	7.4	7.4	7.4	7.4
>2000	4.9	9.9	16.0	16.0	16.0	16.0	16.0	16.0
>1000	7.4	19.8	32.1	33.3	33.3	33.3	33.3	33.3
>600	9.9	23.5	37.0	38.3	38.3	38.3	38.3	38.3
>300	12.3	25.9	39.5	40.7	40.7	40.7	40.7	40.7
>150	12.3	25.9	39.5	40.7	42.0	42.0	42.0	42.0
>0	12.3	25.9	39.5	43.2	48.1	51.9	53.1	53.1
TOTAL	10	21	32	33	39	42	43	43

TOTAL NUMBER OF OBS: 81

PCT FREQ NH <5/8: 46.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	13.5	11.9	14.3	2.4	2.4	2.4	2.4	4.8	33.3	10.7	84

PERIOD: (PRIMARY) 1965-1970
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	1.4	1.0	.3	.0	.0	.0	.0	.0	.0	3.4	
	NO PCP	.0	.2	1.2	.0	.0	.0	.0	.0	.0	.0	1.4	
	TOT %	.7	1.5	2.2	.3	.0	.0	.0	.0	.0	.0	4.8	
1/2<1	PCP	.0	.0	1.2	1.5	.0	.7	.7	.7	.0	.0	4.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
	TOT %	.0	.0	1.2	1.5	.0	.7	.7	1.4	.0	.0	5.5	
1<2	PCP	1.2	.7	.0	.7	.5	.7	.0	2.2	.0	.0	5.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.2	.7	.0	.7	.5	.7	.0	2.2	.0	.0	5.3	
2<5	PCP	.5	1.5	1.4	.2	.5	.7	1.4	2.7	.0	.0	8.9	
	NO PCP	.7	.2	.5	.0	.0	.9	.5	2.7	.0	.0	5.5	
	TOT %	1.2	1.7	1.9	.2	.5	1.6	1.9	5.5	.0	.0	14.4	
5<10	PCP	.0	.0	.0	.0	.7	.6	.7	.7	.0	.0	2.1	
	NO PCP	1.7	1.9	2.4	1.5	3.1	2.4	7.9	3.8	.0	.0	24.7	
	TOT %	1.7	1.9	2.4	1.5	3.8	2.4	8.6	4.5	.0	.0	26.7	
10+	PCP	.0	.0	.7	.0	.0	.0	.0	.7	.0	.0	1.4	
	NO PCP	7.7	2.7	.7	2.7	.5	3.3	5.3	18.2	.0	.7	41.8	
	TOT %	7.7	2.7	1.4	2.7	.5	3.3	5.3	18.8	.0	.7	43.2	
TOT OBS													146
TOT PCT		12.3	8.6	9.1	7.0	5.3	8.0	14.4	32.4	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.7	1.5	2.2	.3	.0	.0	.0	.0	.0	.0	4.8	
	TOT %	.7	1.5	2.2	.3	.0	.0	.0	.0	.0	.0	4.8	
1/2<1	0-3	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.7	.0	.0	.0	1.4	.0	.0	2.0	
	22+	.0	.0	1.2	.2	.0	.7	.7	.7	.0	.0	3.4	
	TOT %	.0	.0	1.2	1.5	.0	.7	.7	2.0	.0	.0	6.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.7	.7	.0	.7	.0	.0	.0	.7	.0	.0	2.7	
	22+	.5	.0	.0	.0	.5	.2	.0	1.5	.0	.0	2.7	
	TOT %	1.2	.7	.0	.7	.5	.2	.0	2.2	.0	.0	5.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.7	.0	.0	.0	.7	.0	2.0	.0	.0	3.4	
	11-21	1.2	.9	1.4	.0	.0	.0	.7	2.0	.0	.0	6.1	
	22+	.0	.2	.5	.2	.5	.9	1.2	1.4	.0	.0	4.8	
	TOT %	1.2	1.7	1.9	.2	.5	1.5	1.9	5.4	.0	.0	14.3	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
	4-10	.0	.7	.0	.7	.7	.7	.7	.0	.0	.0	3.4	
	11-21	.5	.9	1.9	.9	1.2	1.5	3.2	.9	.0	.0	10.9	
	22+	1.2	.3	.5	.0	1.9	.2	4.6	2.9	.0	.0	11.6	
	TOT %	1.7	1.9	2.4	1.5	3.7	2.4	8.5	4.4	.0	.0	26.5	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.7	.0	.7	1.4	
	4-10	.0	1.4	.0	.0	.0	1.5	1.9	1.4	.0	.0	6.1	
	11-21	4.1	.0	1.4	.7	.0	.2	2.4	6.3	.0	.0	13.0	
	22+	3.6	1.4	.0	2.0	.5	1.5	1.0	10.4	.0	.0	20.4	
	TOT %	7.7	2.7	1.4	2.7	.5	3.2	3.3	18.7	.0	.7	42.9	
TOT OBS													147
TOT PCT		12.4	8.5	9.0	7.0	5.3	8.0	16.3	32.8	.0	.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 249	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <4/8 ANY HGT	TOTAL OBS
00003	4.5	.0	.0	.0	22.7	4.5	.0	.0	9.1	4.5	45.5	54.5	72
06009	.0	.0	.0	20.0	20.0	20.0	.0	.0	.0	.0	60.0	40.0	5
12015	20.7	.0	3.4	6.9	20.7	10.3	.0	.0	6.9	.0	69.0	31.0	29
18021	7.7	3.8	3.8	3.8	7.7	7.7	.0	.0	3.8	.0	38.5	61.5	26
TOT	9	1	2	4	14	7	0	0	5	1	43	39	82
PCT	11.0	1.2	2.4	4.9	17.1	8.5	.0	.0	6.1	1.2	52.4	47.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	8.1	5.4	18.9	24.3	43.2	37
06009	4.0	.0	8.0	12.0	20.0	56.0	25
12015	6.8	6.8	4.5	18.2	34.1	29.5	44
18021	7.3	7.3	4.9	7.3	24.4	48.8	41
TOT	7	9	8	21	39	63	147
PCT	4.8	6.1	5.4	14.3	26.5	42.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	4.5	4.5	27.3	18.2	54.5	22
06009	.0	.0	25.0	50.0	25.0	4
12015	20.7	24.1	48.3	24.1	27.6	29
18021	7.7	19.2	30.8	11.5	57.7	26
TOT	9	13	29	16	36	81
PCT	11.1	16.0	35.6	19.8	44.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	.0	1.4	.0	.0	1	1.4
35/39	.0	.0	.0	1.4	.0	4.2	1.4	.0	5	7.0
30/34	.0	.0	.0	.0	.0	1.4	7.0	.0	11	15.5
25/29	.0	.0	.0	.0	2.8	2.8	4.2	8.5	13	18.3
20/24	.0	.0	.0	.0	2.8	1.4	.0	5.6	7	9.9
15/19	.0	.0	.0	1.4	4.2	2.8	8.5	4.2	15	21.1
10/14	.0	.0	.0	.0	1.4	5.6	8.5	1.4	12	16.9
5/9	.0	.0	.0	.0	2.8	1.4	2.8	1.4	6	8.5
0/4	.0	.0	.0	.0	.0	.0	1.4	.0	1	1.4
TOTAL	0	0	0	2	10	11	27	21	71	100.0
PCT	.0	.0	.0	2.8	14.1	15.5	38.0	29.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0
2.5	3.2	.0	.0	.0	.0	.0	1.4	.0	.0
4.2	1.8	4.6	.7	.0	.0	.0	1.4	2.8	.0
1.1	.4	2.5	2.8	1.4	.0	2.8	7.4	.0	.0
1.4	.0	1.4	1.4	.0	.0	.0	5.6	.0	.0
1.1	.4	4.9	.4	.0	4.2	4.2	6.0	.0	.0
.0	.0	.0	1.8	2.5	.7	6.7	5.3	.0	.0
.0	.0	.0	.0	.0	.0	3.5	4.9	.0	.0
.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0
10.2	5.6	13.4	7.0	3.9	4.9	18.7	36.3	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	42	41	36	19	7	5	5	20.0	37
06009	37	36	36	21	12	-4	-4	22.7	26
12015	39	38	36	21	6	2	2	21.7	43
18021	39	38	34	21	8	3	3	22.3	40
TOT	42	39	36	21	7	2	-4	21.7	146

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	17.4	13.0	39.1	30.4	83	23		
06009	.0	.0	30.0	.0	30.0	.0	74	2		
12015	.0	.0	4.2	16.7	45.8	33.3	86	24		
18021	.0	9.1	18.2	18.2	27.3	27.3	80	22		
TOT	0	2	10	11	27	21	83	71		

PERIOD: (PRIMARY) 1965-1970
(OVER-ALL) 1982-1970

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	TOT	W FOG	WD FOG
6	.0	.0	.0	.0	.0	.0	.0	1.0	.0	1	.0	1.0
5	.0	.0	.0	.0	.0	.0	.0	2.0	.0	2	1.0	1.0
4	.0	.0	.0	.0	.0	.0	.0	5.1	1.0	6	1.0	5.1
2	.0	.0	.0	.0	.0	.0	3.1	2.0	.0	5	1.0	4.1
1	.0	.0	.0	.0	.0	.0	.0	1.0	.0	1	.0	1.0
0	.0	.0	.0	.0	.0	1.0	9.2	2.0	.0	12	1.0	11.2
-1	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1	.0	1.0
-2	.0	.0	.0	.0	.0	3.1	3.1	.0	.0	6	2.0	4.1
-3	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1	1.0	.0
-4	.0	.0	.0	.0	.0	7.1	1.0	.0	.0	8	.0	8.2
-5	.0	.0	.0	.0	.0	3.1	.0	.0	.0	3	.0	3.1
-6	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	2	.0	2.0
-7/-8	.0	.0	.0	.0	4.1	1.0	.0	.0	.0	5	.0	5.1
-9/-10	.0	.0	.0	1.0	3.1	2.0	.0	.0	.0	6	.0	6.1
-11/-13	.0	.0	.0	11.2	4.1	.0	.0	.0	.0	15	.0	15.3
-14/-16	.0	.0	5.1	8.2	.0	.0	.0	.0	.0	13	.0	13.3
-17/-19	.0	.0	2.0	.0	.0	.0	.0	.0	.0	2	.0	2.0
-20/-22	.0	4.1	2.0	.0	.0	.0	.0	.0	.0	6	.0	6.1
-23/-25	1.0	2.0	.0	.0	.0	.0	.0	.0	.0	3	.0	3.1
TOTAL	1	6	9	12	14	18	1			98	7	91
PCT	1.0	6.1	9.2	20.4	12.2	18.4	13.3	1.0		100.0	7.1	92.9

PERIOD: (OVER-ALL) 1963-1970

TABLE 16

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	6.1	2.7	.0	.0	8.8	.0	2.7	.7	.0	.0	.0	4.1
5-6	.0	.0	2.7	5.4	.0	.0	8.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	.0	2.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	2.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	2.7
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	8.8	10.1	.0	.0	18.9	.0	2.7	.7	3.4	.0	2.7	9.5

WGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	2.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	2.7	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	2.0	.0	2.0	.0	.0	.0	.0	.7	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	4.7	2.0	.0	6.8	.0	.0	.0	.0	.7	.0	.7

PERIOD: (OVER-ALL) 1963-1970

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TABLE 18 (CONT)

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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
1-2	.0	.0	2.7	.0	.0	.0		2.7	.0	.0	.0	.0	.0	.0		.0
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	.0	2.7	.0	.0	.0		2.7	.0	.0	.0	.0	.0	.0		.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	2.7	.0	.0	.0		2.7	.0	2.7	.0	.0	.0	.0		2.7	
1-2	.0	2.7	2.7	.0	.0	.0		5.4	2.7	.0	2.7	.0	.0	.0		5.4	
3-4	.0	.0	.0	2.7	.0	.0		2.7	.0	2.7	4.1	2.7	.0	.0		9.5	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	10.8	8.1	.0	.0		18.9	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	5.4	5.4	.0		10.8	
10-11	.0	.0	.0	2.0	.0	.0		2.0	.0	.0	.0	.7	.0	.0		.7	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.7	.0	.0		.7	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	2.7	5.4	4.7	.0	.0		12.8	2.7	5.4	17.6	17.6	5.4	.0		48.8	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	.0	2.7	2.7	.0	.0	.0	5.4	
1-2	2.7	2.7	8.1	.0	.0	.0	13.5	
3-4	.0	5.4	10.8	10.8	.0	.0	27.0	
5-6	.0	.0	13.5	16.2	.0	.0	29.7	
7	.0	.0	.0	2.7	.0	.0	2.7	
8-9	.0	.0	.0	5.4	5.4	.0	10.8	
10-11	.0	.0	.0	2.7	.0	.0	2.7	
12	.0	.0	.0	2.7	2.7	.0	5.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	2.7	2.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.7	10.8	35.1	40.5	6.1	2.7	100.0	37

PERIOD: (OVER-ALL) 1964-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.6	7.9	28.9	21.1	5.3	5.3	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	4
6-7	.0	.0	.0	2.6	2.6	7.9	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
8-9	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	2	14
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	2.6	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
TOTAL	1	4	11	9	4	5	1	2	0	0	1	0	0	0	0	0	0	0	0	38	5
PCT	2.6	10.8	28.9	23.7	10.5	13.2	2.6	5.3	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1964-1971
(OVER-ALL) 1964-1971

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49.0N 42.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRYL	PRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WFA
N	.0	.0	3.3	.0	22.3	.0	.0	75.6	.0	.0	2.5	.0	.0	2.4	69.4
NE	9.1	.0	.0	.0	43.0	.0	.0	43.0	.0	.0	6.3	.0	.0	.0	50.0
E	.0	.0	.0	.0	28.4	4.3	.0	42.0	.0	.0	17.0	.0	.0	.0	40.9
SE	14.0	.0	.0	.0	14.0	.0	.0	77.9	4.7	.0	.0	.0	.0	.0	67.4
S	4.9	.0	.0	.0	14.8	.0	.0	19.8	.0	.0	.0	.0	4.9	.0	79.3
SW	.0	.0	.0	.0	10.7	.0	.0	16.7	4.8	.0	.0	.0	.0	.0	78.0
W	.0	.0	.0	.0	20.1	.0	.0	20.1	1.9	.0	2.9	.0	.0	.0	69.1
NW	.0	.0	.0	.0	16.3	.0	.0	16.3	4.4	.0	1.6	2.2	2.2	.0	72.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.0	.0	.4	.0	22.2	.4	.0	75.6	2.1	.0	3.4	.4	.0	.4	67.1
TOT OBS:	234														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRYL	PRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST	NO SIG WFA
0000	3.1	.0	.0	.0	21.9	.0	.0	73.0	3.1	.0	4.7	1.6	.0	.0	.0	65.6
0600	.0	.0	.0	.0	10.0	.0	.0	10.0	10.0	.0	.0	.0	.0	.0	.0	80.0
1200	.0	.0	1.2	.0	20.3	1.2	.0	78.9	.0	.0	1.2	.0	2.4	.0	.0	67.3
1800	6.3	.0	.0	.0	71.3	.0	.0	76.3	2.5	.0	9.0	.0	.0	1.3	.0	63.0
TOT PCT TOT OBS	3.0 237	.0	.4	.0	22.8	.4	.0	76.2	2.1	.0	3.4	.4	.0	.4	.0	66.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PRGQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	4.5	9.7	1.8	.9	.3		13.0	13.9		11.5	17.1	20.0	.0	20.1	19.0	6.5	4.8
NE	.0	2.1	2.9	2.5	1.1	.4		8.6	22.1		9.7	6.6	.0	.0	13.6	14.9	6.0	8.1
E	.0	1.6	.0	2.8	1.8	.4		9.6	24.3		8.3	9.2	10.0	.0	9.8	12.1	11.5	14.9
SE	.4	.8	7.4	2.6	.8	.9		9.0	23.5		6.3	5.3	.0	.0	4.3	14.9	12.9	13.7
S	.0	4.2	7.4	.4	.4	.0		8.4	13.1		18.6	9.3	.0	50.0	10.9	2.9	9.5	3.2
SW	.1	2.5	4.9	.6	1.3	.0		8.8	17.0		1.6	6.6	10.0	50.0	17.9	12.1	8.0	3.2
W	.7	4.7	7.1	9.7	3.0	.7		22.0	20.8		20.6	11.8	40.0	.0	12.0	20.0	26.0	26.6
NW	.4	3.9	4.7	6.9	3.1	.6		19.2	23.0		21.4	38.2	20.0	.0	11.4	6.4	22.0	23.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	7	58	87	55	30	8	240	.8	20.2		.0	.0	.0	.0	.0	2.9	2.0	.0
TOT PCT	2.9	24.2	34.7	22.9	12.5	3.3	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PRGQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	03	09	15
N	2.6	6.3	2.6	1.9	.3			13.4	13.9		13.1	18.2	21.3	5.9
NE	.3	2.5	3.0	2.2	.4			8.6	22.1		8.0	.0	13.9	6.8
E	.8	1.9	2.9	3.1	.8			9.6	24.3		8.6	9.1	7.4	12.7
SE	.8	2.3	3.2	1.8	.8			9.0	23.5		6.0	.0	8.6	13.0
S	1.1	9.0	1.9	.4	.0			8.4	13.1		14.9	4.5	7.4	4.6
SW	1.0	2.8	3.1	1.8	.0			8.8	17.9		3.0	13.6	13.4	6.2
W	1.5	8.3	6.7	4.1	1.5			22.0	20.8		22.4	36.4	13.4	26.2
NW	1.6	4.3	6.6	3.2	1.6			19.2	23.0		26.1	18.2	9.3	23.5
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	.8							.8	.0		.0	.0	.0	.0
TOT OBS	26	80	72	49	13	240		.8	20.2		.0	.0	1.2	1.2
TOT PCT	10.8	33.3	30.0	20.4	5.4	100.0					67	11	81	81

PERIOD: (PRIMARY) 1966-1971
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	.0	1.5	26.9	32.8	28.4	7.3	3.0	19.5	100.0	67
0400	.0	.0	27.3	36.4	.0	16.4	.0	21.3	100.0	11
1200	1.2	2.9	27.2	37.0	18.3	8.6	4.9	18.8	100.0	81
1800	1.2	2.9	18.5	32.1	25.9	17.3	2.5	22.0	100.0	81
TOT	2	5	98	82	35	30	8	20.2		240
PCT	.8	2.1	24.2	34.2	22.9	12.5	3.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD
N	9.9	1.3	1.3	5.5		4.5
NE	1.1	.5	1.2	6.7		6.8
E	.5	.5	1.3	6.3		7.2
SE	.5	1.0	1.0	6.7		7.0
S	1.8	1.0	1.8	2.9		4.9
SW	1.8	1.4	2.4	1.3		4.5
W	3.3	2.9	7.8	6.5		9.1
NW	3.3	3.0	4.8	6.4		4.8
VAR	.0	.0	.0	.0		.0
CALM	.5	.0	.5	.0		3.0
TOT OBS	47	24	46	91	208	5.4
TOT PCT	22.6	11.5	22.1	43.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.7	.8	.8	.7	1.2	.0	.0	.4	.0	.0	9.4	
NE	2.3	.1	.7	.6	1.4	.7	.5	.6	.1	.0	2.4	
E	3.1	.0	.7	1.3	.8	.7	.0	.0	1.1	.0	2.8	
SE	1.4	.0	.1	.5	1.6	1.0	.5	.0	.2	.0	3.8	
S	.5	.0	.5	.5	.5	.5	.5	.0	.8	.4	3.2	
SW	.0	.0	.1	.1	.5	1.0	.0	.0	.1	.6	4.6	
W	.8	.9	.8	1.2	4.9	3.0	.0	.0	.0	.0	11.2	
NW	1.2	.0	.0	.8	3.0	2.3	.5	.0	.0	.5	11.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
TOT OBS	21	3	8	12	28	19	5	2	5	3	102	208
TOT PCT	10.1	1.4	3.8	5.8	13.5	9.1	2.4	1.0	2.4	1.4	49.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>3	>2	>1	>1/2	>1/4	>50YD	>0
>NR >4500	1.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3
>NR >5000	1.9	5.2	5.2	5.2	5.2	5.2	5.2	5.2
>NR >5500	3.3	7.6	7.6	7.6	7.6	7.6	7.6	7.6
>NR >2000	5.2	15.2	16.7	16.7	16.7	16.7	16.7	16.7
>NR >1000	9.7	21.9	27.1	28.6	30.5	30.5	30.5	30.5
>NR >600	6.2	22.9	30.0	32.9	35.7	36.2	36.2	36.2
>NR >300	6.2	23.3	31.4	35.2	39.5	40.0	40.0	40.0
>NR >150	6.2	23.3	31.4	35.2	39.5	41.4	41.4	41.4
>NR >0	6.2	23.3	31.9	38.1	45.2	48.6	51.4	51.4
TOTAL	13	49	67	80	95	102	108	108

TOTAL NUMBER OF OBS: 210

PCT FREQ NH <5/8: 48.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	14.0	13.0	10.2	6.5	3.7	4.7	5.1	7.9	25.6	9.3	213

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	.6	2.0	.0	.4	.0	1.3	.0	.0	.0	5.1	
	NO PCP	.3	.0	.4	.0	.0	.0	.0	.1	.0	.0	.9	
	TOT %	1.1	.6	2.4	.0	.4	.0	1.3	.1	.0	.0	6.0	
1/2<1	PCP	1.4	1.3	.7	.9	.4	.3	1.1	.3	.0	.0	6.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.4	1.3	.7	.9	.4	.3	1.1	.3	.0	.0	6.8	
1<2	PCP	.3	1.1	1.2	.4	.4	.3	1.1	1.8	.0	.0	6.8	
	NO PCP	.0	.0	.0	.0	.0	.4	.0	.9	.0	.0	1.3	
	TOT %	.3	1.1	1.2	.4	.4	1.0	1.1	2.7	.0	.0	8.1	
2<5	PCP	.9	.4	.0	1.3	.4	.0	1.2	.3	.0	.0	4.7	
	NO PCP	1.0	.6	1.8	.5	.0	.0	.6	1.0	.0	.0	5.5	
	TOT %	1.8	1.1	1.8	1.8	.4	.0	1.8	1.3	.0	.0	10.2	
5<10	PCP	.0	.0	.0	.0	.0	.0	1.6	.5	.0	.0	2.1	
	NO PCP	3.5	2.6	2.3	3.4	3.4	5.1	7.7	7.8	.0	.0	35.7	
	TOT %	3.5	2.6	2.3	3.4	3.4	5.1	9.3	8.3	.0	.0	37.9	
10+	PCP	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	NO PCP	4.8	1.6	.9	2.7	3.5	1.9	8.0	6.5	.0	.9	30.6	
	TOT %	4.8	1.6	.9	2.7	3.5	2.3	8.0	6.5	.0	.9	31.1	
TOT OBS													235
TOT PCT		12.9	8.4	9.4	9.1	8.6	8.9	22.4	19.4	.0	.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.3	.1	.0	.0	.4	.0	.4	.0	.0	.0	1.3	
	22+	.7	.5	2.4	.0	.0	.0	.8	.1	.0	.0	4.6	
	TOT %	1.1	.6	2.4	.0	.4	.0	1.3	.1	.0	.0	5.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	
	11-21	.7	.5	.4	.0	.4	.0	.4	.0	.0	.0	2.5	
	22+	.6	.9	.3	.4	.0	.1	1.1	.3	.0	.0	3.8	
	TOT %	1.4	1.5	.7	.8	.4	.5	1.1	.3	.0	.0	6.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.1	.0	.4	.0	.4	.0	.8	.0	.0	2.1	
	11-21	.0	.0	.8	.0	.0	.4	.3	.1	.0	.0	1.7	
	22+	.0	.9	.3	.0	.4	.1	.7	1.7	.0	.0	4.2	
	TOT %	.3	1.1	1.2	.4	.4	.9	1.1	2.6	.0	.0	8.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.3	.5	.0	.0	.8	
	11-21	.8	.4	.8	.0	.4	.0	.0	.4	.0	.0	3.0	
	22+	.9	.6	1.4	1.8	.0	.0	1.5	.5	.0	.0	6.8	
	TOT %	1.8	1.1	2.2	1.8	.4	.0	1.8	1.5	.0	.0	10.5	
5<10	0-3	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	4-10	2.0	1.1	.7	.0	2.6	.8	1.6	.8	.0	.0	9.7	
	11-21	1.2	.8	.9	2.1	.7	3.0	3.3	3.2	.0	.0	15.2	
	22+	.3	.6	.6	1.3	.0	1.3	3.9	4.2	.0	.0	12.2	
	TOT %	3.5	2.5	2.3	3.4	3.4	5.1	9.2	8.2	.0	.0	37.6	
10+	0-3	.4	.0	.0	.4	.0	.1	.3	.4	.0	.8	2.5	
	4-10	2.2	.9	.8	.4	1.2	1.3	2.8	1.7	.0	.0	11.4	
	11-21	1.9	.5	.0	.9	1.9	.5	3.2	1.1	.0	.0	10.1	
	22+	.4	.0	.0	.8	.4	.4	1.6	3.5	.0	.0	7.2	
	TOT %	5.0	1.6	.8	2.6	3.5	2.3	7.9	6.6	.0	.8	31.2	
TOT OBS													237
TOT PCT		13.0	8.3	9.7	9.1	8.5	8.9	22.3	19.4	.0	.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	100 209	200 399	300 999	400 1999	500 3499	600 4999	700 6499	800 7999	9000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	10.7	.0	1.0	3.0	12.5	3.4	3.0	.0	1.8	1.8	41.1	58.9	56
06009	.0	.0	.0	.0	16.7	16.7	.0	.0	.0	.0	33.3	66.7	6
12015	10.5	1.3	5.3	3.9	17.1	9.2	1.3	2.6	2.6	2.6	56.6	43.4	76
18021	9.6	2.7	4.1	9.6	12.3	11.0	2.7	.0	2.7	1.4	56.2	43.8	73
TOT	21	3	8	12	30	19	5	2	5	4	109	102	211
PCT	10.0	1.4	3.8	5.7	14.2	9.0	2.4	.9	2.4	1.9	51.7	48.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.1	3.1	10.8	15.4	36.9	30.8	65
06009	9.1	.0	.0	9.1	45.5	36.4	11
12015	4.8	12.0	6.0	7.2	37.3	32.5	83
18021	8.6	7.4	8.6	9.9	35.8	29.6	81
TOT	14	18	19	25	89	75	240
PCT	5.8	7.5	7.9	10.4	37.1	31.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HRUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	10.9	12.7	30.9	16.4	52.7	55
06009	.0	.0	16.7	33.3	50.0	6
12015	10.5	22.4	30.3	27.6	42.1	76
18021	9.6	20.5	38.4	19.2	42.5	73
TOT	21	39	69	46	95	210
PCT	10.0	18.6	32.9	21.9	45.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	.0	.0	.5	1	.5
40/44	.0	.0	.0	.0	.5	.0	.0	.0	1	.5
35/39	.0	.0	.0	.5	.0	.0	.5	1.5	5	2.5
30/34	.0	.0	.0	.0	.0	.0	5.5	6.5	24	12.1
25/29	.0	.0	.0	.0	.5	.0	2.0	7.5	20	10.1
20/24	.0	.0	.0	.0	1.5	6.0	8.5	8.5	49	24.6
15/19	.0	.0	.0	.0	1.0	4.5	10.6	2.5	37	18.6
10/14	.0	.0	.0	.0	.5	4.0	4.5	1.5	21	10.6
5/9	.0	.0	.0	.5	.5	6.0	4.5	1.5	26	13.1
0/4	.0	.0	.0	.5	.5	1.5	2.5	1.0	12	6.0
-1/-4	.0	.0	.0	.0	.0	.5	1.0	.0	3	1.5
TOTAL	0	0	0	3	8	47	79	62	199	100.0
PCT	.0	.0	.0	1.5	4.0	23.6	39.7	31.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
45/49	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0
40/44	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0
35/39	.5	.0	1.0	.0	.0	.0	.5	.5	.0	.0
30/34	1.4	2.6	1.4	2.6	.0	.0	2.1	1.9	.0	.0
25/29	1.6	.8	2.4	1.0	.0	1.5	2.4	.4	.0	.0
20/24	2.3	2.3	4.5	3.3	2.9	.9	3.4	4.6	.0	.5
15/19	2.9	1.0	1.8	2.6	.9	2.4	3.4	3.6	.0	.0
10/14	1.4	.5	.0	.0	1.0	1.1	3.5	3.0	.0	.0
5/9	3.2	1.6	.0	.0	.0	1.6	2.8	3.8	.0	.0
0/4	.5	.5	.0	.0	.5	.6	2.6	1.3	.0	.0
-1/-4	.0	.0	.0	.0	.0	.0	1.3	.3	.0	.0
TOTAL	13.8	9.3	11.1	9.5	9.8	8.2	22.5	19.3	.0	.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	45	44	33	18	4	1	1	17.9	67
06009	42	41	41	24	9	9	9	26.6	11
12015	36	35	32	19	2	-3	-3	18.2	84
18021	43	42	34	21	4	-3	-3	21.4	80
TOT	45	42	34	20	3	-3	-3	19.5	242

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.6	5.5	23.5	40.0	25.5	82	55		
06009	.0	.0	.0	23.0	23.0	30.0	90	4		
12015	.0	.0	.0	20.5	38.4	41.1	87	73		
18021	.0	1.4	7.1	24.3	42.9	24.3	83	70		
TOT	0	3	8	47	81	63	85	202		

PERIOD: (PRIMARY) 1964-1971
(OVER-ALL) 1998-1971

FEBRUARY

AREA 0007 ANTICOSTI ISLAND
49.6N 62.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1	.0	.8
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	2	.0	1.5
6	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	1	.0	.8
5	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	2	.0	1.5
4	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	1	.0	.8
3	.0	.0	.0	.0	.0	.0	.0	2.3	2.3	.0	.0	.0	6	.0	4.6
2	.0	.0	.0	.0	.0	.0	.0	3.8	.8	.0	.0	.0	6	.0	4.6
1	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	2	.0	1.5
0	.0	.0	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	5	.0	3.8
-1	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.8	.0	.0	3	.0	2.3
-2	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	3	.0	2.3
-3	.0	.0	.0	.0	.0	.0	4.6	.8	.0	.0	.0	.0	7	.0	5.4
-4	.0	.0	.0	.0	.0	.0	5.4	.0	.0	.0	.0	.0	7	.0	5.4
-5	.0	.0	.0	.0	.0	3.8	.8	.0	.0	.0	.0	.0	6	.0	4.6
-6	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	5	.0	3.8
-7/-8	.0	.0	.0	.0	.0	7.7	.0	.8	.0	.0	.0	.0	11	.0	8.5
-9/-10	.0	.0	.0	.0	7.7	2.3	.0	.8	.0	.0	.0	.0	14	.0	10.8
-11/-13	.0	.0	.0	1.5	9.2	.0	.0	.0	.0	.0	.0	.0	14	.0	10.8
-14/-16	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	2.3
-17/-19	.0	.0	4.6	1.5	.8	.0	.0	.0	.0	.0	.0	.0	9	.0	6.9
-20/-22	.0	3.1	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	4.6
-23/-25	.8	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	5.4
-26/-30	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	5.4
<-30	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.8	.8
TOTAL	10	7	7	23	17	8	2	1	1	1	130	.8	99.2		
PCT	7.7	7.7	5.4	6.2	17.7	17.7	13.1	15.4	6.2	.8	1.5	.8	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	3.0	.0	.0	.0		3.0	.0	.0	.0	.0	.0	.0		.0
1-2	.0	3.0	.0	.0	.0	.0		3.0	.0	.0	.0	.0	.0	.0		.0
3-4	.0	.0	2.3	.0	.0	.0		2.3	.0	.0	.8	.0	.0	.0		.8
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	3.0	.0	.0		3.0
7	.0	.0	.0	2.3	2.3	.0		4.5	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	2.3	.0		2.3	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	3.0	.0		3.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	3.0	5.3	2.3	4.5	.0		15.2	.0	.0	.8	3.0	3.0	.0		6.8

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.0	3.0	.0	.0	.0	.0		3.0
1-2	.0	.0	3.0	.0	.0	.0		3.0	.0	.0	.0	.0	.0	.0		.0
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	.0	3.0	.0	.0	.0		3.0	.0	3.0	.0	.0	.0	.0		3.0

PERIOD: (OVER-ALL) 1963-1971

FEBRUARY

AREA 0007 ANTICOSTI ISLAND
49.6N 82.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.3	.0	.0	.0	.0	2.3	.0	.8	.0	.0	.0	.0	.8	.8
1-2	.0	.0	11.4	.0	.0	.0	11.4	.0	.0	.8	.0	.0	.0	.8	.8
3-4	.0	.0	3.0	.0	.0	.0	3.0	.0	3.0	9.1	.0	.0	.0	15.2	15.2
5-6	.0	.0	.0	.0	2.3	.0	2.3	.0	.0	3.0	3.0	6.8	.0	12.9	12.9
7	.0	.0	.0	.0	.0	2.3	2.3	.0	.0	3.0	3.8	.8	.8	8.3	8.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	3.8	.8	6.8	6.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	3.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	14.4	3.0	2.3	2.3	24.2	.0	3.8	9.8	18.9	11.4	.8	44.7	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.0	6.1	3.0	.0	.0	.0	12.1	12.1
1-2	.0	3.0	15.2	.0	.0	.0	18.2	18.2
3-4	.0	.0	9.1	.0	.0	.0	21.2	21.2
5-6	.0	.0	3.0	6.1	9.1	.0	18.2	18.2
7	.0	.0	3.0	6.1	3.0	3.0	15.2	15.2
8-9	.0	.0	.0	3.0	6.1	.0	9.1	9.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	3.0	3.0	.0	6.1	6.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.0	12.1	33.3	27.3	21.2	3.0	100.0	33

PERIOD: (OVER-ALL) 1962-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.1	11.9	16.7	9.5	7.1	2.4	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	4
6-7	.0	2.4	2.4	2.4	4.8	7.1	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
8-9	.0	.0	.0	.0	.0	.0	2.4	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	11
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	16.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	0
TOTAL	10	6	8	5	5	4	1	2	0	1	0	0	0	0	0	0	0	0	0	42	4
PCT	23.8	14.3	19.0	11.9	11.9	9.5	2.4	4.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1887-1970

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEAT
N	.0	.0	.0	.0	12.8	.0	.0	12.8	.0	.0	.0	.0	.0	.0	87.2
NE	14.1	.0	6.3	.0	3.1	.0	.0	23.4	12.5	.0	.0	.0	.0	.0	64.1
E	7.0	.0	.0	.0	7.0	.0	.0	14.0	.0	.0	18.8	.0	.0	.0	67.4
SE	.0	.0	.0	8.0	16.0	.0	.0	24.0	8.0	.0	16.0	.0	.0	.0	92.0
S	8.0	.0	.0	.0	.0	8.0	.0	16.0	.0	.0	16.0	.0	.0	.0	68.0
SW	.0	.0	.0	.0	7.8	.0	.0	7.8	.0	.0	.0	.0	.0	.0	92.2
W	.0	.0	.0	.0	18.7	.0	.0	18.7	2.9	.0	5.0	.0	.0	.0	73.4
NW	.0	.0	.0	.0	5.6	3.2	.0	8.8	.0	.0	.8	.0	.0	.0	90.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.6	.0	.7	.7	9.9	1.3	.0	15.1	2.6	.0	5.3	.0	.0	.0	77.0
TOT OBS:	152														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	6.5	.0	2.2	.0	4.3	2.2	.0	15.2	.0	.0	8.7	.0	.0	.0	76.1
0600	10.0	.0	.0	.0	10.0	.0	.0	20.0	20.0	.0	.0	.0	.0	.0	60.0
1200	.0	.0	.0	2.2	13.0	.0	.0	15.2	2.2	.0	2.2	.0	.0	.0	80.4
1800	.0	.0	.0	.0	11.3	1.9	.0	13.2	1.9	.0	5.7	.0	.0	.0	79.2
TOT PCT TOT OBS	2.6 155	.0	.6	.6	9.7	1.3	.0	14.8	2.6	.0	5.2	.0	.0	.0	77.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15
N	1.1	3.7	6.4	1.4	.0	.0		12.7	13.8	12.1	19.2	.0	100.0	17.2	26.3
NE	.0	3.3	3.3	3.7	.6	.6		11.8	20.5	15.9	23.1	10.0	.0	12.1	13.2
E	.0	1.6	2.8	2.4	.0	.0		6.8	17.6	6.8	15.4	.0	.0	9.5	5.3
SE	.0	3.5	4.3	.7	.0	.0		8.0	12.1	10.4	7.7	10.0	.0	5.2	.0
S	.0	2.2	1.5	2.5	.0	.0		6.3	16.3	13.6	7.7	10.0	.0	2.6	.0
SW	.0	3.8	4.5	.5	.0	.0		8.8	14.0	8.3	.0	10.0	.0	7.8	10.5
W	1.9	4.9	8.1	6.4	1.1	.0		22.5	17.1	12.1	15.4	40.0	.0	19.8	23.7
NW	.2	3.0	4.1	7.6	.2	.6		19.9	20.6	20.5	3.8	10.0	.0	23.9	21.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3	.0	.0	.0	.0	.0		1.3	.0	.0	7.7	10.0	.0	.0	.0
TOT OBS	7	41	65	39	3	2	157	16.8		93	13	10	1	29	19
TOT PCT	4.5	26.1	41.4	24.8	1.9	1.3	100.0			100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	06	12
N	2.2	5.4	4.5	.6	.0		12.7	13.8	14.1	9.1	20.8
NE	1.6	3.0	4.6	1.9	.6		11.8	20.5	17.9	9.1	12.5
E	.5	2.9	2.9	.6	.0		6.8	17.6	9.2	.0	7.8
SE	1.9	3.8	2.2	.0	.0		8.0	12.1	9.8	9.1	3.1
S	.0	5.3	2.1	1.0	.0		8.3	16.3	12.0	9.1	1.6
SW	.6	4.6	3.2	.3	.0		8.8	14.0	6.0	9.1	8.9
W	4.5	8.8	7.5	3.7	.0		22.5	17.1	13.0	36.4	21.4
NW	.8	6.4	9.4	2.7	.6		19.9	20.6	15.8	9.1	24.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
CALM	1.3	.0	.0	.0	.0		1.3	.0	2.2	9.1	.0
TOT OBS	21	60	57	17	2	157	16.8		46	11	48
TOT PCT	13.4	38.2	36.3	10.8	1.3	100.0			100.0	100.0	100.0

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1967-1970

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	2.2	2.2	19.6	47.8	21.7	2.2	4.3	18.3	100.0	46
06009	9.1	18.2	36.4	18.2	18.2	.0	.0	10.0	100.0	11
12015	.0	4.2	25.0	37.5	31.3	2.1	.0	17.2	100.0	48
18021	.0	.0	30.8	44.2	23.1	1.9	.0	16.7	100.0	32
TOT	2	5	41	65	39	3	2	16.8		137
PCT	1.3	3.2	26.1	41.4	24.8	1.9	1.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL PFS	MEAN CLOUD COVER
N	5.7	.0	3.9	4.3		4.4
NE	2.3	1.4	.2	6.8		3.8
E	2.1	.7	.5	4.3		3.6
SE	2.1	.9	2.0	3.0		4.9
S	.0	.5	3.8	2.0		6.5
SW	.7	2.3	4.3	1.8		4.9
W	8.4	4.7	3.2	3.0		3.8
NW	8.6	7.0	4.5	2.0		3.2
VAR	.0	.0	.0	.0		4.0
CALM	.7	.0	.0	.0		4.0
TOT OBS	43	24	34	39	140	4.5
TOT PCT	30.7	17.1	24.3	27.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.0	1.1	1.3	.0	.0	.7	1.4	9.5	
.0	.0	.0	.2	3.4	.9	.0	.7	.0	.2	5.4	
.0	.0	.0	1.3	1.3	1.1	.0	.0	.0	1.5	2.9	
1.4	.0	.7	.0	.9	.2	.0	.7	.0	.2	3.9	
.7	.0	.0	.7	1.3	.7	.0	.0	.0	.5	2.3	
.0	.0	.0	.0	1.6	.0	.0	.7	.0	.0	6.8	
.5	.0	.0	2.0	1.8	.7	.0	.0	.0	.0	13.9	
.2	.0	.0	.2	2.3	.0	.0	.0	.0	.7	18.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.4	.0	1	6	16	10	0	2	2	.7	92	140
2.9	.0	.7	4.3	11.4	7.1	.0	1.4	1.4	5.0	63.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.8	6.4	6.4	6.4	6.4	6.4	6.4	6.4
= OR >5000	4.3	7.8	7.8	7.8	7.8	7.8	7.8	7.8
= OR >3500	4.3	7.8	7.8	7.8	7.8	7.8	7.8	7.8
= OR >2000	6.4	14.2	14.2	14.9	14.9	14.9	14.9	14.9
= OR >1000	9.9	21.3	24.1	25.5	26.2	26.2	26.2	26.2
= OR >600	10.6	23.4	27.7	29.8	30.5	30.5	30.5	30.5
= OR >300	10.6	23.4	28.4	30.5	31.2	31.2	31.2	31.2
= OR >150	10.6	23.4	28.4	30.5	31.2	31.2	31.2	31.2
= OR >0	10.6	23.4	28.4	30.5	32.6	32.6	32.3	34.0
TOTAL	15	33	40	43	46	46	47	48

TOTAL NUMBER OF OBS: 141

PCT FREQ NM <5/8: 66.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
29.0	18.2	10.8	6.1	4.1	3.4	2.7	7.4	19.6	2.7	148

PERIOD: (PRIMARY) 1964-1970
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.7	.7	.0	.5	.2	.0	.0	.0	2.0
	TOT %	.0	.0	.0	.7	.7	.0	.5	.2	.0	.0	.0	2.0
1/2<1	PCP	.0	.2	.5	.7	.0	.0	.7	.0	.0	.0	.0	2.0
	NO PCP	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7
	TOT %	.0	.2	.5	1.3	.0	.0	.7	.0	.0	.0	.0	2.6
1<2	PCP	1.2	.3	.5	.0	.7	.0	.7	.7	.0	.0	.0	4.0
	NO PCP	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7
	TOT %	1.2	.3	1.2	.0	.7	.0	.7	.7	.0	.0	.0	4.6
2<5	PCP	.5	1.3	.0	1.3	.0	.0	1.0	.5	.0	.0	.0	4.6
	NO PCP	.0	.0	.7	.7	.0	.0	1.2	.2	.0	.0	.0	2.6
	TOT %	.5	1.3	.7	2.0	.0	.0	2.2	.7	.0	.0	.0	7.3
5<10	PCP	.0	.0	.0	.0	.7	.7	1.3	.0	.0	.0	.0	2.6
	NO PCP	4.5	2.8	2.3	1.2	4.1	5.8	9.8	4.6	.0	.7	31.8	
	TOT %	4.5	2.8	2.3	1.2	4.8	6.5	7.1	4.6	.0	.7	34.4	
10+	PCP	.0	.7	.0	.0	.0	.0	.7	.7	.0	.0	.0	2.0
	NO PCP	6.8	4.6	2.5	3.1	2.2	2.0	11.3	13.9	.0	.7	47.0	
	TOT %	6.8	5.3	2.5	3.1	2.2	2.0	11.9	14.6	.0	.7	49.0	
TOT OBS													151
TOT PCT													12.9 9.9 7.1 8.3 8.3 8.4 23.0 20.7 .0 1.3 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.7	.0	.0	.5	.2	.0	.0	.0	1.3
	22+	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7
	TOT %	.0	.0	.0	.7	.7	.0	.5	.2	.0	.0	.0	2.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	1.3
	22+	.0	.2	.5	.0	.0	.0	.7	.0	.0	.0	.0	1.3
	TOT %	.0	.2	.5	1.3	.0	.0	.7	.0	.0	.0	.0	2.6
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.5	.2	.0	.0	.7	.0	.0	.0	.0	.0	.0	1.3
	11-21	.7	.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	2.0
	22+	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	1.3
	TOT %	1.2	.3	1.2	.0	.7	.0	.7	.7	.0	.0	.0	4.6
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	1.3
	11-21	.5	.0	.0	1.3	.0	.0	1.5	.7	.0	.0	.0	4.0
	22+	.0	1.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	2.0
	TOT %	.5	1.3	.7	2.0	.0	.0	2.2	.7	.0	.0	.0	7.3
5<10	0-3	.7	.0	.0	.0	.0	.0	1.3	.0	.0	.7	2.6	
	4-10	.0	.8	.5	.2	1.2	3.3	2.5	.7	.0	.0	.0	8.6
	11-21	3.1	1.3	1.2	1.0	2.5	4.0	3.0	2.2	.0	.0	17.2	
	22+	.7	.7	.7	.0	1.2	.2	.3	2.3	.0	.0	.0	6.0
	TOT %	4.5	2.8	2.3	1.2	4.8	6.5	7.1	4.6	.0	.7	34.4	
10+	0-3	.5	.0	.0	.0	.0	.0	.7	.2	.0	.7	2.0	
	4-10	3.3	.5	1.2	2.8	.5	.7	2.0	3.0	.0	.0	13.9	
	11-21	2.3	2.2	.7	.2	1.2	1.3	3.1	5.6	.0	.0	16.6	
	22+	.7	2.6	.7	.2	.5	.0	6.1	9.8	.0	.0	16.6	
	TOT %	6.8	5.3	2.5	3.1	2.2	2.0	11.9	14.6	.0	.7	49.0	
TOT OBS													151
TOT PCT													12.9 9.9 7.1 8.3 8.3 8.4 23.0 20.7 .0 1.3 100.0

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1987-1970

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	4.8	.0	2.4	4.8	9.5	4.8	.0	.0	.0	7.1	33.3	66.7	42
06009	.0	.0	.0	.0	.0	.0	.0	.0	14.3	14.3	28.6	71.4	7
12015	2.3	.0	.0	2.3	11.4	15.9	.0	.0	2.3	6.8	40.9	59.1	44
18021	2.0	.0	.0	6.0	14.0	2.0	.0	4.0	.0	.0	28.0	72.0	50
TOT	4	0	1	6	16	10	0	2	2	7	48	95	143
PCT	2.8	.0	.7	4.2	11.2	7.0	.0	1.4	1.4	4.9	33.6	66.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	4.3	2.2	4.3	8.7	43.5	37.0	46
06009	.0	10.0	.0	10.0	30.0	50.0	10
12015	2.2	.0	4.4	6.7	37.8	48.9	45
18021	.0	3.8	5.7	5.7	22.6	62.3	53
TOT	3	4	7	11	52	77	154
PCT	1.9	2.6	4.5	7.1	33.8	50.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	4.8	9.5	21.4	14.3	64.3	42
06009	.0	.0	.0	33.3	66.7	6
12015	2.3	2.3	15.9	31.8	52.3	44
18021	2.0	4.1	14.3	16.3	69.4	49
TOT	4	7	23	30	88	141
PCT	2.8	5.0	16.3	21.3	62.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.8	.0	.0	.0	1	.8
45/49	.0	.0	.0	.0	.0	.8	.8	.0	2	1.7
35/39	.0	.0	.0	.0	.8	2.5	6.6	1.7	14	11.6
30/34	.0	.0	.0	1.7	2.5	5.0	6.6	8.3	29	24.0
25/29	.0	.0	.0	1.7	.8	5.0	9.9	5.8	28	23.1
20/24	.0	.0	.8	.0	.0	4.1	4.1	7.4	20	16.5
15/19	.0	.0	.0	.8	2.5	3.3	3.3	.0	12	9.9
10/14	.0	.0	.8	.0	.8	3.3	1.7	.0	8	6.6
5/9	.0	.0	.0	.0	.8	1.7	1.7	.0	5	4.1
0/4	.0	.0	.0	.0	.0	.0	.8	.0	2	1.7
TOTAL	0	0	2	5	11	30	43	30	121	100.0
PCT	.0	.0	1.7	4.1	9.1	24.8	35.5	24.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
45/49	.8	.0	.0	.8	.0	.0	.0	.0	.0	.0
35/39	2.9	3.7	1.4	.8	2.5	.0	.0	.2	.0	.0
30/34	1.2	2.9	4.5	4.1	1.9	2.7	3.1	3.5	.0	.0
25/29	3.7	2.1	2.1	1.0	2.3	2.5	4.5	4.1	.0	.8
20/24	1.2	.0	.0	2.5	1.4	2.9	3.5	5.0	.0	.0
15/19	.6	.8	.0	1.0	.6	.8	2.1	3.9	.0	.0
10/14	.6	.0	.0	.0	.8	.0	2.9	2.3	.0	.0
5/9	.6	.0	.8	.0	.0	.0	1.7	1.0	.0	.0
0/4	.8	.0	.0	.0	.0	.0	.0	.8	.0	.0
TOTAL	13.4	9.5	8.9	10.3	9.5	8.9	17.8	20.9	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	49	48	40	28	11	4	4	28.0	47
06009	52	51	51	25	6	6	6	26.3	11
12015	51	50	46	23	5	1	1	25.1	48
18021	50	49	48	26	9	6	6	25.6	54
TOT	52	51	45	27	7	4	1	26.2	160

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.0	5.0	17.5	47.5	25.0	83	40		
06009	.0	.0	.0	.0	.0	100.0	95	3		
12015	.0	2.7	13.5	29.7	24.3	29.7	81	37		
18021	.0	9.1	9.1	29.5	36.4	15.9	78	44		
TOT	0	7	11	31	44	31	81	124		

MARCH

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1887-1970AREA 0007 ANTICOSTI ISLAND
49.6N 63.0W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	05 04	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1	.0	1.1
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1	.0	1.1
7/8	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	.0	.0	2	.0	2.1
6	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1	1.1	.0
5	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	.0	.0	2	1.1	1.1
4	.0	.0	.0	.0	.0	.0	.0	1.1	.0	1.1	.0	2	.0	2.1
3	.0	.0	.0	.0	.0	.0	2.1	5.3	.0	.0	.0	7	2.1	5.3
2	.0	.0	.0	.0	.0	.0	3.2	1.1	.0	.0	.0	4	.0	4.2
1	.0	.0	.0	.0	.0	.0	4.2	1.1	.0	.0	.0	5	1.1	4.2
0	.0	.0	.0	.0	.0	.0	10.5	1.1	.0	.0	.0	11	.0	11.6
-1	.0	.0	.0	.0	.0	2.1	3.2	.0	.0	.0	.0	5	.0	5.3
-2	.0	.0	.0	.0	.0	7.4	.0	.0	.0	.0	.0	7	.0	7.4
-3	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	3	.0	3.2
-4	.0	.0	.0	.0	1.1	5.3	2.1	.0	.0	.0	.0	8	.0	8.4
-5	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	2	.0	2.1
-6	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	5	.0	5.3
-7/-8	.0	.0	.0	.0	8.4	.0	.0	.0	.0	.0	.0	8	.0	8.4
-9/-10	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	1	.0	1.1
-11/-13	.0	.0	1.1	5.3	.0	.0	.0	.0	.0	.0	.0	6	.0	6.3
-14/-16	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	4.2
-17/-19	.0	3.2	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	5	.0	5.3
-20/-22	1.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	3.2
-23/-25	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	2.1
TOTAL	3	5	6	6	17	17	24	11	3	1	2	95	5	90
PCT	3.7	5.3	6.3	6.3	17.9	17.9	25.3	11.6	3.2	1.1	2.1	100.0	5.3	94.7

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	3.1	.0	.0	.0	3.1	.0	.0	3.1	3.1	.0	.0	6.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	5.5	.0	.0	.0	5.5	.0	.0	3.1	3.1	.0	.0	7.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	5.5	3.1	.0	.0	.0	8.6	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.3	.0	.0	.0	2.3	.0	3.1	1.6	.0	.0	.0	4.7
3-4	.0	.0	3.1	3.1	.0	.0	6.3	.0	3.1	.0	.8	.0	.0	3.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.5	8.6	3.1	.0	.0	17.2	.0	6.3	1.6	.8	.0	.0	8.6

PERIOD: (OVER-ALL) 1943-1970

MARCH

AREA 0007 ANTICOSTI ISLAND
49.6N 63.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	5.5	.0	.0	.0	5.5	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	5.5	.0	.0	5.5	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	3.1	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	3.1	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	9.6	8.6	.0	.0	17.2	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0
1-2	.0	8.3	.0	.0	.0	.0	8.3	.0	.0	3.9	.0	.0	.0	3.9	3.9
3-4	.0	3.1	3.1	2.3	.0	.0	8.6	.0	.0	3.1	.8	.0	.0	3.9	3.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	3.1	.0	.0	6.3	6.3
7	.0	.0	.0	3.1	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	3.1	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	2.3	.0	2.3	.0	.0	.0	.0	.8	.0	.8	.8
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.4	3.1	8.6	2.3	.0	23.4	.0	3.1	10.2	3.9	.8	.0	18.0	96.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	6.1	9.1	3.0	.0	.0	.0	18.2	085
1-2	.0	9.1	15.2	.0	.0	.0	24.2	
3-4	.0	6.1	15.2	15.2	.0	.0	36.4	
5-6	.0	.0	3.0	3.0	.0	.0	6.1	
7	.0	.0	.0	.0	.0	.0	6.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	3.0	.0	.0	3.0	
12	.0	.0	.0	.0	3.0	.0	3.0	
13-16	.0	.0	.0	3.0	.0	.0	3.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.1	24.2	39.4	27.3	3.0	.0	100.0	33

PERIOD: (OVER-ALL) 1962-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.3	23.7	28.9	2.6	2.6	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25
6-7	.0	.0	2.6	2.6	2.6	.0	2.6	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDEX	13.2	.0	.0	2.6	2.6	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
TOTAL	7	9	12	3	3	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	38
PCT	18.4	23.7	31.6	7.9	7.9	2.6	2.6	2.6	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1960-1970
(OVER-ALL) 1883-1970

APRIL

AREA 0007 ANTICOSTI ISLAND
49.3N 63.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRPL	PRZG PCPN	SNOW	OTHER FZLN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	4.8	.0	4.8	6.5	.0	.0	.0	.0	.0	88.7
NF	.0	.0	.0	.0	3.8	.0	.0	3.8	.0	.0	15.4	.0	.0	.0	80.8
E	.0	.0	4.9	.0	30.9	.0	.0	35.8	13.6	.0	.0	.0	.0	.0	50.6
SE	11.5	.0	.0	.0	2.6	.0	.0	14.1	6.4	.0	10.3	.0	.0	.0	69.2
S	14.6	.0	.0	.0	8.3	.0	.0	22.9	.0	.0	16.7	.0	.0	.0	60.4
SW	16.2	5.4	.0	.0	.0	.0	.0	21.6	.0	.0	5.4	.0	5.4	.0	62.2
W	2.9	.0	2.1	.0	2.9	.0	.0	7.9	.0	.0	2.9	.0	2.9	.0	86.4
NW	.0	.0	.4	.0	1.8	2.2	.0	4.5	3.6	.0	.0	.0	.0	.0	91.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30.0	.0	.0	.0	70.0
TOT PCT	4.1	.5	1.0	.0	5.2	1.0	.0	11.9	3.6	.0	5.2	.5	1.0	.0	77.7
TOT OBS:	193														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRPL	PRZG PCPN	SNOW	OTHER FZLN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	7.1	.0	1.8	.0	3.6	1.8	.0	14.3	5.4	.0	7.1	.0	1.8	.0	71.4
06009	.0	.0	.0	.0	8.0	.0	.0	8.0	.0	.0	4.0	.0	.0	.0	84.0
12015	5.3	.0	.0	.0	7.0	1.8	.0	14.0	5.3	.0	3.5	.0	.0	.0	77.2
18021	1.7	1.7	1.7	.0	3.3	.0	.0	8.3	1.7	.0	5.0	.0	1.7	.0	83.3
TOT PCT	4.0	.5	1.0	.0	5.1	1.0	.0	11.6	3.5	.0	5.1	.5	1.0	.0	78.3
TOT OBS:	198														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.8	2.9	1.4	1.7	.5	.4		8.8	14.4	8.7	11.1	11.4	12.5	5.7	14.6	6.1	15.6	
NF	1.2	2.0	2.4	.0	.0	.0		5.6	10.1	2.6	11.1	1.1	37.5	6.8	6.3	5.6	6.3	
E	1.2	3.5	3.7	1.7	.0	.0		10.1	13.2	6.6	11.1	4.5	.0	16.1	12.5	7.8	17.2	
SE	1.0	5.1	7.2	1.2	.0	.0		9.5	10.7	13.8	22.2	4.5	.0	4.2	8.3	14.4	1.6	
S	.0	2.1	3.8	.0	.0	.0		5.9	12.7	7.1	8.3	.0	25.0	4.7	6.3	8.3	.0	
SW	.0	3.3	4.8	.5	.5	.0		9.0	13.3	7.7	2.8	18.2	.0	9.9	10.4	7.2	7.8	
W	.5	6.0	6.6	1.7	2.0	.4		17.1	16.2	20.4	11.1	27.3	.0	15.6	8.3	16.7	12.5	
NW	.6	7.3	13.7	3.9	2.4	1.2		29.1	18.6	23.0	22.2	23.9	25.0	34.9	33.3	29.4	39.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.9							4.9	.0	10.2	.0	9.1	.0	2.1	.0	4.4	.0	
TOT OBS	23	66	79	22	11	4	203		14.3	49	9	22	4	48	12	45	16	
TOT PCT	11.2	32.2	38.5	10.7	5.4	2.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	3.0	2.7	1.8	.0	.4		8.8	14.4	9.1	11.5	7.5	8.6	
NE	1.6	2.7	1.3	.0	.0		5.6	10.1	2.9	6.7	6.7	5.7	
E	2.4	4.6	2.2	.9	.0		10.1	13.2	7.3	3.8	13.4	10.2	
SE	3.5	4.3	1.6	.1	.0		9.5	10.7	15.1	3.8	5.0	11.1	
S	1.2	3.0	1.6	.0	.0		5.9	12.7	7.3	3.8	5.0	6.1	
SW	1.3	5.9	1.3	.5	.0		9.0	13.3	6.9	15.4	10.0	7.4	
W	3.5	7.0	3.8	2.4	.4		17.1	16.2	19.0	23.1	14.2	15.6	
NW	3.3	11.3	9.8	3.0	1.7		29.1	18.6	22.8	24.0	34.6	32.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.9						4.9	.0	8.6	7.7	1.7	3.3	
TOT OBS	51	85	48	16	5	203		14.3	58	26	60	61	
TOT PCT	24.9	41.5	23.4	7.8	2.4		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1960-1970
(OVER-ALL) 1963-1970

APRIL

AREA 0007 ANTICOSTI ISLAND
49.3N 63.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	8.6	8.6	34.5	34.5	10.3	3.4	.0	11.8	100.0	38
0600Z	7.7	3.8	42.3	30.8	11.3	3.8	.0	12.1	100.0	26
1200Z	1.7	8.3	25.0	48.3	8.3	3.3	5.0	16.0	100.0	60
1800Z	3.3	3.3	32.8	36.1	13.1	9.8	1.6	16.0	100.0	61
TOT	10	13	66	79	22	11	4	14.3		205
PCT	4.9	6.3	32.2	38.5	10.7	5.4	2.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.4	.6	.8	3.4		4.5
NE	2.2	1.0	.0	.0		2.0
E	2.8	.8	2.4	6.0		5.7
SE	1.6	.8	2.4	4.6		5.8
S	1.4	.0	.0	3.6		5.7
SW	1.8	1.0	.4	4.4		5.6
W	9.1	3.6	3.8	2.8		3.5
NW	16.7	9.4	6.9	3.2		3.2
VAR	.0	.0	.0	.0		.0
PALM	1.6	1.6	.8	1.6		4.5
TOT OBS	51	16	22	37	126	4.2
TOT PCT	40.5	12.7	17.5	29.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/R)
AND OCCURRENCE OF NM <5/R BY WIND DIRECTION

RECORDS BY WIND DIRECTION AND SPEED												
	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/R ANY HGT	TOTAL OBS
N	.6	.0	.0	.8	1.2	.8	.0	.0	.0	.8	4.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	
E	.0	.8	.0	1.6	2.0	.8	.8	.0	.0	1.6	4.4	
SE	.8	.0	.0	1.0	.4	.8	.8	.8	.8	.0	4.8	
S	.6	.0	.0	1.4	.0	.0	.0	.0	.0	.0	3.0	
SW	.2	.0	.0	.2	4.0	.2	.0	.0	.0	.0	3.0	
W	.0	.0	.0	2.2	.6	1.8	.8	.0	.0	.0	13.9	
NW	.2	.8	.0	.8	1.4	1.2	.8	.8	.0	1.6	23.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PALM	.0	.0	.0	.0	.8	1.6	.0	.0	.0	.0	3.2	
TOT OBS	3	2	0	10	13	9	2	2	1	5	79	
TOT PCT	2.4	1.6	.0	7.9	10.3	7.1	1.6	1.6	.8	4.0	62.7	120

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/R) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
>5000	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
>3500	7.0	7.8	7.8	7.8	7.8	7.8	7.8	7.8
>2000	7.8	12.5	14.1	14.8	14.8	14.8	14.8	14.8
>1000	10.2	18.0	23.4	24.2	25.0	25.0	25.0	25.0
>600	12.5	22.7	29.7	32.0	33.6	33.6	33.6	33.6
>300	12.5	22.7	29.7	32.0	33.6	33.6	33.6	33.6
>150	12.5	23.4	30.5	32.8	34.4	34.4	34.4	35.2
>0	12.5	23.4	30.5	32.8	34.4	35.2	36.7	37.5
TOTAL	16	30	39	42	44	45	47	48

TOTAL NUMBER OF OBS: 128

PCT FREQ NM <5/R: 62.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	21.8	17.6	12.7	7.7	1.4	1.4	4.2	8.5	22.5	142

PERIOD: (PRIMARY) 1960-1970
(OVER-ALL) 1969-1970

APRIL

AREA 0007 ANTICOSTI ISLAND
49.3N 63.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	.0	.5	.5	.0	.0	.0	.1	.0	.0	1.0	
	NO PCP	.0	.0	.4	.6	.4	.1	.0	.0	.0	.5	2.1	
	TOT %	.4	.0	.9	1.2	.4	.1	.0	.1	.0	.5	3.0	
1/2<1	PCP	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.5	.5	.3	.9	.0	.0	.0	.0	1.6	
	TOT %	.0	.0	.9	.6	.3	.9	.0	.0	.0	.0	2.1	
1<2	PCP	.0	.0	.5	.0	1.0	.0	.5	.0	.0	.0	2.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.5	.0	1.0	.0	.5	.0	.0	.0	2.1	
2<5	PCP	.0	.1	2.3	.1	.0	1.0	.4	.1	.0	.0	4.1	
	NO PCP	.9	.0	.0	.5	.4	.1	.9	1.0	.0	1.0	4.1	
	TOT %	.9	.1	2.3	.6	.4	1.2	.9	1.2	.0	1.0	8.3	
5<10	PCP	.0	.0	.0	.6	.4	1.0	.5	1.0	.0	.0	3.6	
	NO PCP	1.7	.6	1.8	1.7	.0	1.8	3.4	4.0	.0	.5	15.5	
	TOT %	1.7	.6	1.8	2.3	.4	2.8	3.9	5.1	.0	.5	19.2	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	9.4	2.6	4.0	9.3	3.8	9.2	12.8	22.5	.0	3.1	64.8	
	TOT %	9.4	2.6	4.0	9.3	3.8	9.2	12.8	22.5	.0	3.1	64.8	
TOT OBS													193
TOT PCT		8.0	3.4	10.5	10.1	6.2	9.6	18.1	28.9	.0	5.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	
	4-10	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	.5	
	11-21	.0	.0	.0	.5	.4	.1	.0	.0	.0	.0	1.0	
	22+	.4	.0	.9	.1	.0	.0	.0	.1	.0	.0	1.6	
	TOT %	.4	.0	.9	1.2	.4	.1	.0	.1	.0	.5	3.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	
	11-21	.0	.0	.9	.1	.3	.3	.0	.0	.0	.0	1.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.9	.6	.3	.3	.0	.0	.0	.0	2.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
	11-21	.0	.0	.5	.0	.5	.0	.5	.0	.0	.0	1.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.5	.0	1.0	.0	.5	.0	.0	.0	2.1	
2<5	0-3	.5	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.6	
	4-10	.0	.0	.5	.0	.0	.5	.5	.0	.0	.0	1.6	
	11-21	.0	.1	.9	.0	.4	.6	.0	1.0	.0	.0	3.1	
	22+	.0	.0	.9	.6	.0	.0	.4	.1	.0	.0	2.1	
	TOT %	.5	.1	2.3	.6	.4	1.2	.9	1.2	.0	1.0	8.3	
5<10	0-3	.0	.0	.5	.5	.0	.0	.0	.0	.5	.5	1.6	
	4-10	.3	.1	.8	1.7	.0	.6	.9	1.3	.0	.0	5.7	
	11-21	.0	.5	.5	.1	.4	1.2	1.7	1.8	.0	.0	6.2	
	22+	1.4	.0	.0	.0	.0	1.0	1.3	1.9	.0	.0	5.7	
	TOT %	1.7	.6	1.8	2.3	.4	2.8	3.9	5.1	.0	.5	19.2	
10+	0-3	1.4	1.0	.5	.5	.0	.0	.5	.6	.0	3.1	7.8	
	4-10	2.3	.9	2.5	2.7	1.7	2.3	4.9	6.5	.0	.0	23.8	
	11-21	.8	.6	1.6	1.6	2.1	2.8	4.8	10.6	.0	.0	26.4	
	22+	.9	.0	.0	.5	.0	.0	2.6	4.8	.0	.0	8.8	
	TOT %	5.4	2.6	4.0	5.3	3.8	5.2	12.8	22.5	.0	3.1	64.8	
TOT OBS													193
TOT PCT		8.0	3.4	10.5	10.1	6.2	9.6	18.1	28.9	.0	5.2	100.0	

APRIC

PERIOD: (PRIMARY) 1960-1970
(OVER-ALL) 1883-1970AREA 0007 ANTICOSTI ISLAND
49.3N 63.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 200	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	2.6	.0	13.2	10.5	5.3	.0	.0	.0	5.3	36.8	63.2	38
06009	.0	.0	.0	.0	7.1	7.1	7.1	.0	.0	.0	21.4	78.6	14
12015	7.7	.0	.0	10.3	10.3	5.1	2.6	2.6	.0	2.6	41.0	59.0	39
18021	.0	2.3	.0	4.5	9.1	9.1	.0	2.3	2.3	4.5	34.1	65.9	44
TOT	3	2	0	11	13	9	2	2	1	5	48	87	135
PCT	2.2	1.5	.0	8.1	9.6	6.7	1.5	1.5	.7	3.7	35.6	64.4	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	3.4	1.8	.0	14.3	25.0	55.4	96
06009	.0	.0	4.0	6.0	16.0	76.0	25
12015	5.9	3.5	9.9	7.0	15.8	64.9	57
18021	3.3	1.7	1.7	5.0	16.7	71.7	60
TOT	7	4	4	16	37	130	198
PCT	3.5	2.0	2.0	8.1	18.7	65.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	5.9	32.4	11.8	55.9	34
06009	.0	.0	.0	25.0	75.0	12
12015	7.7	10.3	23.1	17.9	59.0	39
18021	2.3	4.7	14.0	20.9	65.1	43
TOT	4	8	26	23	79	128
PCT	3.1	6.3	20.3	18.0	61.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.8	.0	.0	.0	1	.8
50/54	.0	.0	.0	.0	.8	.8	.0	.0	3	2.5
45/49	.0	.0	.0	.0	.8	.8	.0	.0	2	1.7
40/44	.0	.0	.0	1.7	3.4	4.2	1.7	.8	14	11.8
35/39	.0	.0	.0	.0	2.5	7.6	6.7	10.9	33	27.7
30/34	.0	.0	.0	1.7	3.4	11.8	7.6	16.0	48	40.3
25/29	.0	.0	.0	.0	.0	3.4	2.5	2.5	10	8.4
20/24	.0	.0	.0	.0	.8	.8	.8	1.7	5	4.2
15/19	.0	.0	.0	.0	.8	.0	.8	.0	2	1.7
10/14	.0	.0	.0	.0	.0	.0	.0	.8	1	.8
TOTAL	0	0	0	4	16	34	26	39	119	100.0
PCT	.0	.0	.0	3.4	13.4	28.6	21.8	32.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	1.7	.0	.8
.0	.0	.0	.0	.0	.8	.0	.8	.0	.0
.6	1.1	.0	1.7	.0	.8	1.7	5.9	.0	.0
2.1	1.1	2.3	.8	2.3	2.9	7.6	8.6	.0	.0
3.4	.0	4.0	4.6	4.2	4.6	8.0	9.9	.0	1.7
1.5	1.3	2.3	.8	.0	.8	.4	1.3	.0	.0
.0	.0	1.3	.4	.0	.0	.4	2.1	.0	.0
.0	.0	.0	.0	.0	.0	1.5	.2	.0	.0
.0	.0	.0	.0	.0	.0	.0	.8	.0	.0
8.4	3.4	9.9	8.4	6.5	10.1	19.5	31.3	.0	2.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	59	58	53	34	26	18	18	35.5	60
06009	56	55	51	33	27	14	14	33.7	27
12015	55	54	53	34	25	17	17	34.6	57
18021	57	56	50	37	21	16	16	36.6	63
TOT	59	56	53	34	25	16	14	35.3	207

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.3	10.5	26.3	26.3	31.6	82	38		
06009	.0	.0	.0	28.6	42.9	28.6	86	14		
12015	.0	2.9	5.9	32.4	17.6	41.2	85	34		
18021	.0	2.7	27.0	29.7	13.5	27.0	78	37		
TOT	0	4	16	36	27	40	82	123		

APRIL

PERIOD: (PRIMARY) 1966-1970
(OVER-ALL) 1963-1970AREA 0007 ANTICOSTI ISLAND
49.3N 63.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	1	.0	.6
11/13	.0	.0	.0	.0	.0	.0	.0	1.8	1.2	.6	.0	6	.0	3.6
9/10	.0	.0	.0	.0	.0	.6	.6	.0	.0	.6	.0	3	.0	1.8
7/8	.0	.0	.0	.0	.0	.6	2.4	2.4	.6	.0	.0	10	.0	6.1
6	.0	.0	.0	.0	.0	.0	1.8	.0	.6	.0	.0	4	.0	2.4
5	.0	.0	.0	.0	.0	1.2	1.8	.0	.0	.0	.0	5	.6	2.4
4	.0	.0	.0	.0	.0	2.4	5.5	.6	.6	.0	.0	15	1.2	7.9
3	.0	.0	.0	.0	.0	6.1	3.0	.6	.0	.0	.0	16	.6	9.1
2	.0	.0	.0	.0	2.4	9.7	3.6	.0	.0	.0	.0	26	.0	15.8
1	.0	.0	.0	.0	3.0	4.8	.0	.0	.0	.0	.0	13	1.2	6.7
0	.0	.0	.0	.0	3.6	4.2	1.2	.6	.0	.6	.0	17	.0	10.3
-1	.0	.0	.0	.0	5.5	1.2	.0	.0	.0	.0	.0	11	.0	6.7
-2	.0	.0	.0	.0	6.1	1.2	.0	.0	.0	.0	.0	13	1.2	6.7
-3	.0	.0	.0	1.8	1.2	.0	.0	.0	.0	.0	.0	5	.0	3.0
-4	.0	.0	.0	.6	1.2	1.2	.0	.0	.0	.0	.0	5	.0	3.0
-5	.0	.0	.0	1.8	.0	.6	.0	.0	.0	.0	.0	4	.0	2.4
-6	.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	2	.0	1.2
-7/-8	.0	.0	.6	1.2	.6	.0	.0	.0	.0	.0	.0	4	.0	2.4
-9/-10	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.6
-11/-13	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.6
-14/-16	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	1.2
-17/-19	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.6
TOTAL	2	2	3	11	39	33	20.0	6.7	3.6	1.2	.6	165	4.8	95.2
PCT	1.2	1.2	1.8	6.7	23.6	33.3	20.0	6.7	3.6	1.2	.6	100.0	4.8	95.2

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.7	.0	.0	.0	.0	1.7	.0	1.1	.0	.0	.0	.0	1.1
1-2	2.2	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	2.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	1.7	1.7	.0	.0	.0	5.6	.0	1.1	2.8	.0	.0	.0	3.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	3.9	.0	.0	.0	.0	3.9	4.4	.0	.0	.0	.0	.0	4.4
1-2	.0	2.2	.0	.0	.0	.0	2.2	.0	2.8	2.2	.0	.0	.0	5.0
3-4	.0	.0	4.4	.0	.0	.0	4.4	.0	.0	2.2	2.2	.0	.0	4.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.1	4.4	.0	.0	.0	10.6	4.4	2.8	4.4	2.2	.0	.0	13.9

PERIOD: (OVER-ALL) 1963-1970

APRIL

AREA 0007 ANTICOSTI ISLAND
49.3N 63.3W

TABLE 18 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
1-2	.0	1.7	2.2	.0	.0	.0		3.9	.0	2.2	5.0	.0	.0	.0		7.2
3-4	.0	.0	1.7	.0	.0	.0		1.7	.0	.0	2.8	.0	.0	.0		2.8
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	2.2	.0	.0	.0		2.2
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	2.2	.0	.0	.0		2.2	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	1.7	6.1	.0	.0	.0		7.8	.0	2.2	10.0	.0	.0	.0		12.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0		.0	.0	2.2	.0	.0	.0	.0		.0	2.2
1-2	.0	4.4	3.9	.0	.0	.0		8.3	.0	2.2	4.4	.0	.0	.0		.0	6.7
3-4	.0	1.7	2.2	.0	.0	.0		3.9	.0	.0	13.3	.0	.0	.0		.0	13.3
5-6	.0	.0	.0	1.7	.0	.0		1.7	.0	.0	.0	.6	.0	.0		.0	.6
7	.0	.0	.0	.0	1.7	.0		1.7	.0	.0	2.2	.0	.6	.0		.0	2.8
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
TOT PCT	.0	6.1	6.1	1.7	1.7	.0		13.6	.0	5.0	20.0	.6	.6	.0		26.1	95.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.9	8.9	.0	.0	.0	.0	17.8	
1-2	2.2	15.6	17.8	.0	.0	.0	35.6	
3-4	.0	2.2	28.9	2.2	.0	.0	33.3	
5-6	.0	.0	4.4	2.2	.0	.0	6.7	
7	.0	.0	2.2	.0	2.2	.0	4.4	
8-9	.0	.0	2.2	.0	.0	.0	2.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.1	26.7	55.6	4.4	2.2	.0	100.0	45

PERIOD: (OVER-ALL) 1950-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.2	26.8	25.4	5.6	2.8	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	3
6-7	.0	2.8	1.4	2.8	1.4	.0	2.8	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
8-9	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDEX	8.5	2.8	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	1
TOTAL	9	25	22	8	3	1	2	1	0	0	0	0	0	0	0	0	0	0	0	71	3
PCT	12.7	35.2	31.0	11.3	4.2	1.4	2.8	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1929-1970
(OVER-ALL) 1864-1970

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG NEA
N	3.7	1.5	2.2	.0	.0	.0	.0	7.4	8.1	.0	2.9	.0	.0	.0
NE	5.6	2.2	1.1	4.4	4.4	.0	.0	17.8	5.6	.0	2.2	.0	4.4	.0
E	10.8	2.2	2.2	.0	.0	.0	.0	15.1	4.3	.0	3.8	2.2	.0	.0
SE	6.3	1.5	3.0	.0	1.5	.0	.0	12.2	1.9	.0	18.9	.0	.0	.0
S	4.8	.0	.0	.0	.0	.0	.0	4.8	2.1	.0	12.4	.0	2.1	.0
SW	5.3	.0	.0	5.3	.0	.0	.0	10.7	.0	.0	6.7	.0	6.7	.0
W	4.6	.0	1.5	.0	.0	.0	.0	6.1	3.0	.0	1.1	.0	1.9	.0
NW	5.6	3.0	2.0	.0	.0	.0	.0	10.6	.0	.0	3.5	.0	.8	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5	.0	.0	.0	.0	.0	.0	4.5	.0	.0	4.5	.0	.0	.0
TOT PCT	5.8	1.5	1.7	.5	.5	.0	.0	10.0	2.4	.0	6.6	.2	1.2	.0
TOT OBS:	412													79.6

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG NEA
00003	2.3	2.3	.8	.8	.0	.0	.0	6.3	2.3	.0	7.8	.0	.8	.0
06009	7.3	2.8	1.8	.9	.0	.0	.0	12.8	3.7	.0	5.5	.0	.9	.0
12015	8.3	.0	2.1	.0	1.0	.0	.0	9.4	3.1	.0	9.4	.0	.0	.0
18021	7.2	.0	3.1	.0	1.0	.0	.0	11.3	.0	.0	4.1	1.0	4.1	.0
TOT PCT	5.6	1.4	1.9	.5	.5	.0	.0	9.8	2.3	.0	6.7	.2	1.4	.0
TOT OBS:	430													79.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	3.5	3.9	1.0	1.1	.1		10.5	14.6	6.7	21.3	9.1	9.7	10.1	24.1	3.0	25.9	
NE	1.5	2.7	1.8	.2	.3	.0		6.4	9.8	6.1	8.8	9.9	11.1	2.3	12.0	3.6	1.9	
E	1.0	3.6	4.3	1.5	.0	.0		10.3	12.6	9.5	10.6	11.4	11.1	8.6	11.1	14.1	1.9	
SE	.8	8.1	5.7	1.4	.0	.0		15.9	11.3	23.3	19.4	9.7	12.5	11.5	17.0	14.1	25.9	
S	.7	3.8	4.3	.6	.0	.0		9.4	11.6	11.1	3.8	9.7	13.9	6.9	10.2	10.9	5.6	
SW	.2	2.6	1.3	.5	.0	.0		4.5	10.8	2.7	5.0	4.0	2.8	4.3	3.7	8.2	5.6	
W	1.2	5.3	4.9	2.9	.5	.2		14.9	14.8	13.2	16.9	17.3	6.9	19.8	5.6	16.8	9.3	
NW	1.1	7.5	8.8	3.4	1.8	.1		22.5	13.7	18.9	11.9	24.4	23.6	30.7	17.6	24.0	20.4	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.8							5.8	.0	8.4	2.5	4.5	8.3	5.7	3.7	5.3	3.7	
TOT OBS	65	185	174	56	18	2	500		12.5	119	40	88	36	87	27	76	27	
TOT PCT	13.0	37.0	34.8	11.2	3.6	.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	2.4	4.8	2.0	1.3	.1			10.5	14.6	10.4	9.3	13.4	9.0		
NE	2.6	3.0	.5	.3	.0			6.4	9.8	6.8	10.3	4.6	3.2		
E	2.4	4.7	3.3	.0	.0			10.3	12.6	9.7	11.3	9.2	10.9		
SE	4.4	8.0	3.3	.2	.0			15.9	11.3	22.3	10.5	11.6	17.2		
S	2.0	5.3	1.7	.2	.0			9.4	11.4	9.3	10.9	7.7	9.5		
SW	1.2	2.4	.9	.0	.0			4.5	10.8	3.3	3.6	4.2	7.5		
W	4.0	5.2	4.2	1.2	.4			14.9	14.8	14.2	14.3	16.4	14.8		
NW	3.6	10.9	4.9	2.2	1.0			22.5	13.7	17.1	24.2	27.6	23.1		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	5.8							5.8	.0	6.9	3.6	5.3	4.9		
TOT OBS	141	222	103	27	7	500			12.5	159	124	114	103		
TOT PCT	28.2	44.4	20.6	5.4	1.4			100.0		100.0	100.0	100.0	100.0		

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	6.9	7.5	37.1	33.3	12.6	2.5	.0	11.8	100.0	159
0600	5.6	6.5	37.1	38.7	8.9	3.2	.0	12.0	100.0	124
1200	5.3	7.0	36.8	36.8	8.8	4.4	.9	12.9	100.0	114
1800	4.9	7.8	36.9	30.1	14.6	4.9	1.0	13.9	100.0	103
TOT	29	36	185	174	56	18	2	12.5		900
PCT	5.8	7.2	37.0	34.8	11.2	3.6	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.8	.4	.4	2.2		3.9
NE	1.0	.0	.5	3.5		6.3
E	.4	.5	1.3	6.9		7.2
SE	3.1	1.4	3.3	9.0		6.0
S	2.6	.0	2.3	3.9		5.4
SW	2.3	.5	.5	3.5		4.9
W	4.9	1.7	5.4	3.0		4.9
NW	6.0	5.1	6.5	5.9		4.4
VAR	.0	.0	.0	.0		.0
CALM	3.3	2.4	1.4	.0	209	2.7
TOT OBS	55	25	46	83		5.1
TOT PCT	26.3	12.0	22.0	39.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.4	1.2	.0	.6	.0	.0	.0	.0	3.7	
.5	.0	.1	1.1	.5	.7	.0	.5	.0	.0	1.4	
.5	.0	1.0	1.6	1.2	1.0	.8	.5	.0	.5	2.2	
1.9	.5	.5	1.2	3.5	1.0	.1	.0	.0	1.9	6.3	
.4	.0	.0	1.2	1.1	.4	.5	.5	.0	.0	5.1	
.1	.0	1.0	1.1	.5	.1	.1	1.0	.0	.0	2.9	
.5	.0	.5	1.4	2.5	.5	.6	1.5	.4	.8	8.9	
.5	.0	1.0	1.3	1.8	2.5	1.2	.5	.1	.6	14.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	6.7	
.9	1	9	21	23	14	7	8	1	9	107	209
4.3	.5	4.3	10.0	11.0	6.7	3.3	3.8	.5	4.3	51.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.8	4.7	5.2	5.2	5.2	5.2	5.2	5.2
= OR >5000	4.2	8.5	8.9	8.9	8.9	8.9	8.9	8.9
= OR >3500	6.6	11.3	12.2	12.2	12.2	12.2	12.2	12.2
= OR >2000	11.3	17.8	18.8	18.8	18.8	18.8	18.8	18.8
= OR >1000	15.5	25.8	29.6	29.6	29.6	29.6	29.6	29.6
= OR >600	18.3	32.9	39.4	39.4	39.4	39.4	39.4	39.4
= OR >300	19.7	36.2	42.7	43.2	43.7	43.7	43.7	43.7
= OR >150	19.7	36.2	43.2	43.7	44.1	44.1	44.1	44.1
= OR >0	19.7	36.6	45.1	46.9	47.4	47.9	48.4	48.4
TOTAL	42	78	96	100	101	102	103	103

TOTAL NUMBER OF OBS: 213

PCT FREQ NH <5/8: 51.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
21.0	11.9	7.5	7.5	4.8	2.8	7.9	6.3	27.4	2.8	232

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.2	2.2	.7	.0	.0	.2	.0	.2	3.6	
	TOT %	.0	.0	.2	2.5	.7	.0	.0	.2	.0	.2	3.9	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.1	.2	.2	.0	.0	.0	.1	.0	.0	.7	
	TOT %	.2	.1	.2	.2	.0	.0	.0	.1	.0	.0	1.0	
1<2	PCP	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.2	.0	.5	.0	.0	.7	
	TOT %	.0	.2	.0	.0	.0	.2	.2	.5	.0	.0	1.2	
2<5	PCP	.1	.4	.5	.3	.2	.0	.2	.2	.0	.0	1.9	
	NO PCP	.0	.3	1.3	1.0	.4	.4	.6	.5	.0	.0	4.4	
	TOT %	.1	.7	1.8	1.3	.5	.4	.8	.8	.0	.0	6.3	
5<10	PCP	.3	.4	.7	1.0	.2	.2	.5	2.1	.0	.2	5.8	
	NO PCP	2.7	.8	2.1	4.4	2.5	.4	2.8	5.2	.0	1.0	22.0	
	TOT %	3.1	1.2	2.8	5.3	2.7	.6	3.3	7.3	.0	1.2	27.8	
10+	PCP	.0	.0	.2	.5	.0	.2	.2	.2	.0	.0	1.5	
	NO PCP	4.7	3.2	5.9	6.5	4.8	2.9	11.6	14.8	.0	3.9	58.4	
	TOT %	4.7	3.2	6.1	7.0	4.8	3.1	11.8	15.1	.0	3.9	59.9	
TOT OBS													413
TOT PCT		8.2	9.4	11.2	16.3	8.8	4.5	16.2	24.0	.0	9.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.2	.0	.0	.0	.2	.0	.2	.7	
	4-10	.0	.0	.2	1.3	.5	.0	.0	.0	.0	.0	2.0	
	11-21	.0	.0	.0	.6	.6	.0	.0	.0	.0	.0	1.1	
	22+	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.2	2.5	1.1	.0	.0	.2	.0	.2	4.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.1	.2	.0	.0	.0	.0	.1	.0	.0	.7	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.1	.2	.2	.0	.0	.0	.1	.0	.0	.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	4-10	.0	.2	.1	.3	.0	.2	.0	.2	.0	.0	1.1	
	11-21	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.1	.6	.0	.2	.2	.4	.0	.0	1.8	
2<5	0-3	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.3	.6	.6	.4	.2	.4	.3	.0	.0	2.7	
	11-21	.1	.1	.4	.3	.2	.1	.2	.2	.0	.0	1.6	
	22+	.0	.2	.6	.6	.2	.0	.2	.2	.0	.0	2.0	
	TOT %	.1	.6	1.7	1.5	.7	.3	.8	.7	.0	.0	6.5	
5<10	0-3	.6	.3	.7	.3	.6	.2	.4	.0	.0	1.6	4.7	
	4-10	1.1	.5	.8	2.0	1.0	.3	.5	2.4	.0	.0	8.3	
	11-21	1.2	.3	1.2	2.2	.9	.3	2.0	3.3	.0	.0	11.4	
	22+	3.1	.0	.2	.4	.2	.0	.3	1.6	.0	.0	5.9	
	TOT %	3.0	1.1	2.6	4.9	2.7	.8	3.2	7.3	.0	1.6	27.2	
10+	0-3	.4	1.3	.2	.2	.0	.0	.4	.7	.0	4.0	7.4	
	4-10	2.0	1.1	2.0	4.1	2.0	1.8	4.6	4.1	.0	.0	21.7	
	11-21	1.8	1.2	2.7	2.6	3.0	.7	3.3	5.9	.0	.0	21.2	
	22+	.4	.0	.8	.1	.2	.5	3.3	3.8	.0	.0	9.2	
	TOT %	4.6	3.6	5.7	7.0	5.2	3.0	11.7	14.5	.0	4.0	59.4	
TOT OBS													448
TOT PCT		7.9	9.7	10.7	16.7	9.8	4.3	15.9	23.2	.0	9.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	2.7	1.4	2.7	8.1	10.8	5.4	5.4	2.7	.0	4.1	43.2	56.8	74
06009	3.7	.0	1.9	11.1	13.0	5.6	1.9	1.9	.0	1.9	40.7	59.3	94
12015	8.9	.0	6.7	8.9	8.9	2.2	.0	4.4	2.2	4.4	46.7	53.3	45
18021	1.6	.0	4.8	7.9	6.3	9.5	3.2	4.8	.0	6.3	44.4	55.6	63
TOT	9	1	9	21	23	14	7	8	1	10	103	133	236
PCT	3.8	.4	3.8	8.9	9.7	5.9	3.0	3.4	.4	4.7	43.6	56.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	5.8	.0	2.2	3.6	28.8	59.7	139
06009	3.4	.8	2.5	5.9	27.7	59.7	119
12015	3.7	1.9	2.8	6.5	30.8	54.2	107
18021	3.0	2.0	1.0	9.9	21.8	62.4	101
TOT	19	5	10	29	128	275	466
PCT	4.1	1.1	2.1	6.2	27.5	59.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	4.7	9.4	21.9	29.7	48.4	64
06009	4.3	6.4	21.3	25.5	53.2	47
12015	9.5	16.7	26.2	23.8	50.0	42
18021	1.7	6.7	23.3	23.3	53.3	60
TOT	10	20	49	55	109	213
PCT	4.7	9.4	23.0	25.8	51.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.4	1.3	.8	.0	.0	6	2.5
50/54	.0	.0	.4	.0	.4	2.5	2.1	.4	14	5.9
45/49	.0	.0	.0	.4	2.1	4.7	8.9	1.7	42	17.8
40/44	.0	.0	.4	1.7	3.8	8.5	12.3	13.1	94	39.8
35/39	.0	.0	.0	.8	.8	3.4	8.9	15.7	70	29.7
30/34	.0	.0	.0	.0	.4	.8	.4	2.5	10	4.2
TOTAL	0	0	2	8	21	49	77	79	236	100.0
PCT	.0	.0	.8	3.4	8.9	20.8	32.6	33.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.6	1.1	.0	.3	.5	.0	.0	.0
50/54	.0	.0	.3	.5	1.6	.6	1.6	.0	.0	1.3
45/49	.5	.6	1.1	4.6	1.0	1.2	3.6	.0	.0	1.7
40/44	3.3	1.6	4.7	6.4	4.8	1.4	6.6	9.1	.0	2.1
35/39	3.4	2.1	4.6	9.9	1.4	1.6	2.8	6.7	.0	1.3
30/34	.3	.8	.0	.1	.6	.1	.7	1.5	.0	.0
TOTAL	7.5	5.2	11.2	18.5	9.3	5.2	15.8	20.9	.0	6.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	69	52	41	35	30	28	42.3	163
06009	73	67	50	41	34	31	25	41.1	124
12015	67	64	57	41	35	32	32	43.1	119
18021	65	55	54	43	34	32	32	43.6	108
TOT	73	67	54	41	34	32	25	42.4	514

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.6	6.5	14.3	39.0	37.7	85	77		
06009	.0	5.1	6.8	18.6	33.9	35.8	84	59		
12015	.0	3.5	14.0	28.3	26.3	29.8	81	57		
18021	.0	5.4	10.7	26.8	30.4	26.8	81	56		
TOT	0	10	23	52	82	82	83	249		

PERIOD: (PRIMARY) 1923-1970
(OVER-ALL) 1864-1970

MAY

AREA 0007 ANTICOSTA ISLAND
49.2N 63.8W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.3	.3	.0	2	.0	.3
14/16	.0	.0	.0	.0	.0	.0	.3	.3	.3	6	.0	1.6
11/13	.0	.0	.0	.0	.3	1.1	.8	.5	.3	11	.0	3.0
9/10	.0	.0	.0	.0	.0	1.6	1.1	.8	.0	13	.3	3.3
7/8	.0	.0	.0	.3	1.9	2.9	.8	.5	.0	22	1.1	4.9
6	.0	.0	.0	.0	1.6	.5	.5	.0	.0	10	.0	2.7
5	.0	.0	.0	1.4	3.5	4.4	1.9	.0	.0	48	.5	12.6
4	.0	.0	.5	1.9	4.4	2.2	1.6	.0	.0	39	1.1	9.6
3	.0	.0	.3	3.0	3.8	1.6	.3	.3	.0	34	.8	8.5
2	.0	.0	1.9	4.1	3.8	1.6	.3	.0	.0	43	.8	11.0
1	.0	.0	2.5	4.4	2.5	1.4	.0	.0	.0	39	.8	9.9
0	.0	.0	2.2	4.4	4.1	.0	.0	.0	.0	39	.5	10.2
-1	.0	.3	.5	2.7	.5	.3	.0	.0	.0	16	.3	4.1
-2	.0	.5	1.6	1.9	.3	.3	.0	.0	.0	17	.5	4.1
-3	.3	.5	1.1	1.1	.0	.3	.0	.0	.0	12	.5	2.7
-4	.0	.0	.2	.5	.0	.5	.0	.0	.0	7	.0	1.9
-5	.3	.0	.3	.3	.0	.0	.0	.0	.0	3	.0	.8
-7/-8	.0	.0	.5	.3	.0	.0	.0	.0	.0	3	.0	.8
TOTAL	2	5	45	96	105	67	30	12	2	364	27	337
PCT	.5	1.4	12.4	26.4	28.8	18.4	8.2	3.3	.6	100.0	7.4	92.6

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.8	1.0	.0	.0	.0	3.8	<1	1.0	2.3	.0	.0	.0	.0	3.3
1-2	.0	1.8	.0	.0	.0	.0	1.8	1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	1.5	1.0	.0	.0	.0	2.5	3-4	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0	5-6	.0	.3	.0	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.0	2.0	.0	.0	.0	8.0	TOT PCT	1.0	4.0	.0	.0	.0	.0	5.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	<1	.0	6.3	.0	.0	.0	.0	6.3
1-2	.0	2.0	1.0	.0	.0	.0	3.0	1-2	.0	7.3	4.0	.0	.0	.0	11.3
3-4	.0	.8	2.0	.0	.0	.0	2.8	3-4	.0	1.3	1.0	1.0	.0	.0	3.3
5-6	.0	.8	1.8	.0	.0	.0	2.5	5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.0	1.0	.0	.0	1.0
8-9	.0	.0	.0	1.0	.0	.0	1.0	8-9	.0	.0	1.0	.0	.0	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.3	4.8	1.0	.0	.0	10.3	TOT PCT	.0	14.8	7.3	2.0	.0	.0	24.0

PERIOD: (OVER-ALL) 1963-1970

MAY

AREA 0007 ANTICOSTI ISLAND
47.2N 63.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.5	.0	.0	.0	.0	2.5	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.8	1.0	.0	.0	.0	1.8	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.3	2.0	.0	.0	.0	6.3	.0	1.5	.3	.0	.0	.0	1.8

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.8	1.8	.0	.0	.0	.0	2.5	.3	1.0	.0	.0	.0	.0	1.3
1-2	.0	4.3	.0	.0	.0	.0	4.3	2.0	4.0	2.0	.0	.0	.0	8.0
3-4	1.0	.0	5.0	1.0	.0	.0	7.0	.0	1.0	2.8	.0	.0	.0	3.8
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	2.5	2.0	.0	.0	4.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0
10-11	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	1.3	.0	1.3
12	.0	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	1.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	6.0	6.5	1.0	.8	1.0	17.0	2.3	6.0	7.3	3.0	3.3	.0	21.8 94.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.7	17.5	1.0	.0	.0	.0	28.2	
1-2	1.9	22.3	7.8	.0	.0	.0	32.0	
3-4	1.0	5.8	11.7	1.9	.0	.0	20.4	
5-6	.0	1.0	7.8	1.9	.0	.0	10.7	
7	.0	.0	.0	1.0	.0	.0	1.9	
8-9	.0	.0	1.0	1.9	.0	.0	2.9	
10-11	.0	.0	.0	.0	1.9	.0	1.9	
12	.0	.0	.0	.0	.0	1.0	1.0	
13-16	.0	.0	.0	.0	1.0	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.6	46.6	29.1	6.8	3.9	1.0	100.0	103

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.9	18.7	16.5	7.2	2.2	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	3
6-7	.0	.0	5.8	5.0	3.6	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	5
8-9	.0	.0	.0	.0	1.4	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	15.8	7.9	.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	1
TOTAL	33	37	32	19	10	3	3	1	1	0	0	0	0	0	0	0	0	0	0	139	3
PCT	23.7	26.6	23.0	13.7	7.2	2.2	2.2	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1971
(OVER-ALL) 1880-1971

JUNE

AREA 0007 ANTICOSTI ISLAND
49.4N 63.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WFA
N	6.5	1.6	.0	.0	.0	.0	.0	8.2	.0	.0	2.2	.0	8.7	.0	81.0
NF	15.9	4.9	2.4	.0	.0	.0	.0	23.2	.0	.0	12.2	.0	2.4	.0	59.1
E	15.1	1.4	10.4	.0	.0	.0	.0	26.3	5.4	.0	8.6	1.1	.0	.0	58.6
SF	14.3	1.2	2.1	.0	.0	.0	.0	15.8	1.5	.0	15.2	1.2	4.2	.0	62.2
S	9.7	3.9	2.3	.0	.0	.0	.0	15.9	.0	.0	15.6	.0	.6	.0	67.9
SW	6.6	.0	.3	.0	.0	.0	.0	5.9	1.4	.0	12.4	.0	2.4	.0	76.9
W	4.2	1.7	.0	.0	.0	.0	.0	5.9	.8	.0	4.4	.8	5.9	.0	82.1
NW	1.7	2.2	1.0	.0	.0	.0	.0	4.9	.0	.0	6.8	.0	6.1	.0	82.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.2	4.5	9.1	.0	68.2
TOT PCT	8.1	1.9	2.1	.0	.0	.0	.0	11.7	1.1	.0	9.8	.8	4.1	.0	72.5
TOT OBS:	633														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	*SPRAY BLWG BLWG SNOW	DUST	NO SIG WEA
00003	7.6	2.2	1.1	.0	.0	.0	.0	10.8	1.1	.0	10.3	1.6	3.2	.0		73.0
06009	7.8	1.9	1.9	.0	.0	.0	.0	11.7	.6	.0	8.4	.0	1.3	.0		77.9
12015	7.8	1.8	3.6	.0	.0	.0	.0	12.6	1.8	.0	10.8	1.2	6.0	.0		67.7
18021	7.1	1.8	1.8	.0	.0	.0	.0	10.0	.6	.0	8.8	.6	5.3	.0		74.7
TOT PCT TOT OBS:	7.5 676	1.9	2.1	.0	.0	.0	.0	11.2	1.0	.0	9.6	.9	4.0	.0		73.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	2.4	4.2	.4	.0	.0		7.4	11.8		5.4	6.4	10.8	8.5	8.0	4.7	8.0	3.8
NF	.3	3.0	2.3	1.0	.0	.0		6.6	12.5		2.9	8.5	5.0	12.8	9.8	9.3	6.3	1.9
E	1.2	5.4	4.0	.9	.0	.0		11.5	10.6		10.5	13.8	13.7	8.5	13.9	5.8	9.3	16.0
SF	1.4	6.2	4.3	1.2	.0	.0		13.1	10.8		15.0	16.0	9.4	11.7	13.0	18.6	11.7	14.1
S	.6	5.2	5.5	.7	.0	.0		12.0	12.0		12.2	16.0	14.4	13.8	12.4	3.5	11.5	7.7
SW	1.5	4.9	4.2	.9	.0	.0		11.5	11.2		11.0	20.2	9.4	11.7	11.5	15.1	10.9	6.4
W	2.3	6.9	7.3	2.2	.3	.0		18.8	12.5		24.5	7.4	13.7	16.0	13.0	23.3	23.7	26.9
NW	1.0	5.5	7.1	2.1	.0	.0		15.7	12.7		14.5	9.6	17.9	10.6	15.6	19.8	15.7	23.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0		4.1	2.1	5.7	6.4	3.0	.0	3.0	.0
TOT OBS	84	276	272	66	2	0	700		11.4		148	47	106	47	135	43	135	30
TOT PCT	12.0	39.4	38.9	9.4	.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	1.8	4.3	1.3	.0	.0			7.4	11.8	5.6	10.1	7.2	7.0
NF	1.8	3.1	1.2	.4	.0			6.6	12.5	4.2	7.4	9.7	5.3
E	3.6	5.9	2.0	.0	.0			11.5	10.6	11.3	12.1	11.9	10.8
SF	4.1	6.8	2.1	.1	.0			13.1	10.8	15.3	10.1	14.3	12.2
S	2.1	7.2	2.4	.3	.0			12.0	12.0	13.1	14.2	10.3	10.6
SW	3.3	5.6	2.4	.1	.0			11.5	11.2	13.2	10.1	12.4	9.9
W	5.0	8.7	4.1	1.0	.1			18.8	12.5	20.4	14.4	15.4	24.4
NW	3.5	7.9	3.6	.6	.0			15.7	12.7	13.3	15.7	16.6	17.4
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0	3.6	5.9	2.2	2.3
TOT OBS	200	347	134	18	1	700		11.4		195	153	178	174
TOT PCT	28.6	49.6	19.1	2.6	.1			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1925-1971
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	3.6	9.2	44.6	33.6	7.7	1.0	.0	10.9	100.0	195
0600	5.9	8.5	36.6	43.1	5.9	.0	.0	10.5	100.0	153
1200	2.2	7.9	41.6	38.6	9.6	.0	.0	11.4	100.0	178
1800	2.3	8.6	33.9	40.8	14.4	.0	.0	12.7	100.0	174
TOT	74	60	276	272	66	2	0	11.4		700
PCT	3.4	8.6	39.4	38.9	9.4	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.1	1.3	2.5	2.1		4.9
NE	.5	.6	1.3	3.3		6.3
E	1.5	.5	2.9	6.8		6.5
SE	2.0	1.5	2.7	5.3		5.8
S	2.9	2.1	2.4	4.9		5.2
SW	5.5	1.3	1.3	3.4		4.0
W	8.1	4.7	4.5	1.9		3.6
NW	7.1	2.1	3.9	3.0		3.9
VAR	.0	.0	.0	.0		.0
CALM	.8	1.3	.8	1.1		4.5
TOT OBS	114	38	84	119	375	4.8
TOT PCT	30.4	15.5	22.4	31.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.3	.3	.3	1.1	.0	.3	.2	.5	4.9	
NE	.5	.0	.3	.3	.9	.9	.3	.0	.0	.1	2.2	
E	.7	.0	.3	1.8	2.7	2.0	.3	.3	.2	.5	3.0	
SE	1.2	.0	.3	.5	1.8	.7	.0	.9	.1	.7	5.4	
S	1.4	.0	.0	.9	1.5	1.0	.3	.2	.3	.9	6.0	
SW	1.3	.0	.3	.1	.3	1.1	.3	.0	.0	.3	8.1	
W	.2	.0	.0	.2	.8	2.0	.0	.2	.0	.5	15.2	
NW	.8	.0	.0	.1	.8	.3	.5	.1	.9	.9	11.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.0	.3	.3	.5	.3	.0	.3	2.1	
TOT OBS	24	0	5	17	35	35	8	8	6	17	220	375
TOT PCT	6.4	.0	1.3	4.5	9.3	9.3	2.1	2.1	1.6	4.5	58.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

	CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM)	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	4.3	5.6	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
= OR >5000	6.3	7.8	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
= OR >3500	7.3	9.9	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
= OR >2000	13.9	18.2	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
= OR >1000	18.0	26.1	28.1	28.4	28.4	28.4	28.4	28.4	28.4	28.4
= OR >600	19.5	29.6	32.4	32.7	32.7	32.7	32.7	32.7	32.7	32.7
= OR >300	19.7	30.9	33.7	33.9	33.9	33.9	33.9	33.9	33.9	33.9
= OR >150	19.7	31.1	33.9	34.4	34.4	34.4	34.4	34.4	34.4	34.4
= OR >0	19.7	31.4	34.2	34.9	35.4	36.7	40.3	40.3	40.3	40.3
TOTAL	78	124	135	148	140	145	159	160		

TOTAL NUMBER OF OBS: 395

PCT FREQ NH <5/8: 59.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	17.9	15.3	10.5	8.9	5.7	5.5	3.3	6.7	20.3	5.7	418

PERIOD: (PRIMARY) 1975-1971
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.2	.3	.2	.0	.2	.0	.0	.0	.8	
	NO PCP	.1	.2	.6	.9	1.0	.9	.3	.6	.0	.3	5.1	
	TOT %	.1	.2	.8	1.3	1.2	.9	.5	.6	.0	.3	5.8	
1/2<1	PCP	.0	.2	.0	.2	.2	.1	.2	.1	.0	.0	.9	
	NO PCP	.0	.3	.1	.6	.4	.9	.4	.3	.0	.2	2.4	
	TOT %	.0	.5	.1	.7	.6	.9	.6	.4	.0	.2	3.3	
1<2	PCP	.0	.3	.3	.0	.2	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.3	.2	.0	.0	.0	.2	.0	.0	.2	.8	
	TOT %	.0	.6	.5	.0	.2	.0	.2	.0	.0	.2	1.6	
2<5	PCP	.0	.3	.5	.4	.4	.4	.0	.2	.0	.0	1.7	
	NO PCP	.2	.1	.6	.5	.7	.9	.2	.2	.0	.3	3.0	
	TOT %	.2	.4	1.1	.9	1.1	.9	.2	.4	.0	.3	4.7	
5<10	PCP	.5	.4	1.4	1.1	.6	.6	.6	.5	.0	.0	5.7	
	NO PCP	1.3	1.8	2.2	4.0	2.6	2.9	4.0	3.8	.0	.0	22.6	
	TOT %	1.8	2.2	3.6	5.1	3.2	3.5	4.6	4.3	.0	.0	28.3	
10+	PCP	.1	.3	.5	.1	.4	.1	.1	.0	.0	.0	1.7	
	NO PCP	5.1	2.3	4.5	5.2	5.5	6.4	12.7	10.5	.0	.0	54.5	
	TOT %	5.2	2.6	5.0	5.3	5.9	6.5	12.8	10.5	.0	.0	56.2	
TOT OBS													633
TOT PCT		7.3	6.5	11.0	13.3	12.2	11.9	18.8	16.2	.0	3.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.2	.2	.0	.0	.3	.3	.0	.3	1.2	
	4-10	.1	.2	.5	.5	.4	.4	.2	.2	.0		2.5	
	11-21	.0	.0	.1	.5	.7	.3	.0	.0	.0		1.7	
	22+	.0	.0	.0	.0	.0	.2	.0	.2	.0		.3	
	TOT %	.1	.2	.7	1.2	1.2	.9	.5	.6	.0	.3	5.7	
1/2<1	0-3	.0	.0	.0	.2	.0	.1	.1	.0	.0	.2	.5	
	4-10	.0	.2	.1	.4	.5	.2	.0	.2	.0		1.4	
	11-21	.0	.0	.2	.0	.2	.4	.5	.2	.0		1.1	
	22+	.0	.3	.0	.2	.0	.0	.0	.0	.0		.5	
	TOT %	.0	.5	.2	.7	.6	.3	.6	.4	.0	.2	3.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.3	
	4-10	.0	.2	.3	.0	.2	.0	.0	.0	.0		.6	
	11-21	.0	.3	.2	.0	.2	.2	.0	.0	.0		.8	
	22+	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.6	.5	.0	.3	.2	.2	.0	.0	.2	1.9	
2<5	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3	.5	
	4-10	.1	.0	.9	.4	.7	.2	.0	.2	.0		2.5	
	11-21	.1	.2	.2	.3	.2	.2	.2	.2	.0		1.4	
	22+	.0	.2	.0	.2	.2	.0	.0	.0	.0		.5	
	TOT %	.2	.4	1.1	.9	1.0	.4	.2	.3	.0	.3	4.8	
5<10	0-3	.0	.3	.6	.4	.2	.4	.5	.3	.0	.0	2.8	
	4-10	.9	1.1	1.4	2.5	1.4	1.2	1.4	1.7	.0		11.6	
	11-21	.9	.3	1.2	1.8	1.5	1.6	1.9	1.9	.0		11.2	
	22+	.0	.5	.5	.3	.0	.3	.7	.2	.0		2.3	
	TOT %	1.8	2.1	3.7	5.0	3.1	3.4	4.5	4.2	.0	.0	27.9	
10+	0-3	.5	.4	.4	.5	.3	.9	1.0	.3	.0	2.5	6.5	
	4-10	1.3	1.2	2.1	2.3	2.3	3.1	5.2	3.4	.0		20.8	
	11-21	2.9	1.3	2.1	1.9	3.0	1.9	4.7	5.0	.0		22.9	
	22+	.4	.0	.5	.7	.3	.5	2.0	1.7	.0		6.0	
	TOT %	5.1	2.5	5.2	5.4	5.9	6.4	12.9	10.4	.0	2.5	56.3	
TOT OBS													645
TOT PCT		7.1	6.4	11.4	13.3	12.2	11.6	18.8	15.9	.0	3.4	100.0	

PERIOD: (PRIMARY) 1925-1971
(OVER-ALL) 1880-1971

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH $\geq 4/8$ AND
OCCURRENCE OF NH $\leq 5/8$ BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH $\leq 5/8$ ANY HGT	TOTAL OBS
00Z03	7.4	1.1	.0	4.3	9.6	4.3	1.1	3.2	.0	2.1	33.0	67.0	94
06Z09	4.1	1.0	2.0	4.1	10.2	10.2	3.1	.0	2.0	9.2	45.9	54.1	98
12Z15	6.2	.0	3.1	4.1	10.3	9.3	1.0	1.0	2.1	3.1	40.2	59.8	97
18Z21	6.0	.0	.0	4.3	6.0	10.3	3.4	4.3	1.7	3.4	39.7	60.3	116
TOT	24	2	5	17	36	35	9	9	6	18	161	244	405
PCT	5.9	.5	1.2	4.2	8.9	8.6	2.2	2.2	1.5	4.4	39.8	60.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	$< 1/2$	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00Z03	5.9	3.7	3.7	2.1	31.0	53.5	187
06Z09	5.7	2.5	.4	5.0	25.8	60.4	159
12Z15	6.4	4.7	2.3	5.8	32.6	48.3	172
18Z21	5.2	2.9	.6	5.2	24.4	61.6	172
TOT	40	24	13	31	197	385	690
PCT	5.8	3.5	1.9	4.3	28.6	55.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH $\geq 4/8$ BY HOUR

HOUR (GMT)	< 150 < 500	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH $\leq 5/8$ AND 5+	TOTAL OBS
00Z03	7.6	9.8	17.4	19.6	63.0	92
06Z09	4.3	7.4	16.0	31.9	52.1	94
12Z15	6.2	9.3	17.5	23.7	58.8	97
18Z21	6.3	6.3	13.4	28.6	58.0	112
TOT	24	32	63	103	229	395
PCT	6.1	8.1	15.9	26.1	58.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.2	.0	.0	.0	.0	.0	1	.2
65/69	.0	.0	.0	.0	.5	.7	.2	.0	6	1.5
60/64	.0	.0	.0	.5	1.7	1.9	1.0	.2	22	5.4
55/59	.0	.0	.0	.2	2.9	7.8	2.9	1.2	62	15.1
50/54	.0	.0	.2	1.5	3.4	6.3	13.1	11.2	147	35.8
45/49	.0	.0	.0	.5	1.9	5.8	10.5	12.7	129	31.4
40/44	.0	.0	.0	.0	.0	.7	3.6	6.3	44	10.7
TOTAL	0	0	2	11	43	96	129	130	411	100.0
PCT	.0	.0	.5	2.7	10.5	23.4	31.4	31.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
65/69	.0	.0	.2	.0	.2	.3	.2	.5	.0	.0
60/64	.7	.5	.4	.7	.2	.3	1.2	1.2	.0	.2
55/59	.5	.1	1.2	2.2	2.3	2.3	3.1	2.9	.0	.5
50/54	3.3	1.6	4.9	4.0	3.8	4.1	6.8	4.9	.0	2.4
45/49	3.2	1.5	4.3	2.7	4.7	3.2	4.6	6.1	.0	1.2
40/44	.7	2.8	.9	1.6	.9	.6	1.5	1.7	.0	.0
TOTAL	8.3	6.4	11.9	11.1	12.0	10.8	17.6	17.3	.0	4.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	71	65	61	51	43	41	41	51.2	206
06Z09	71	63	59	49	41	39	39	48.9	167
12Z15	67	66	60	50	43	40	40	50.6	188
18Z21	75	66	62	52	44	41	40	52.9	179
TOT	75	66	61	50	43	40	39	50.9	740

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	4.2	7.6	24.6	33.1	30.5	83	118		
06Z09	.0	1.0	7.3	14.6	34.4	42.7	86	96		
12Z15	.0	.9	7.3	25.7	34.9	31.2	85	109		
18Z21	.0	7.1	19.5	25.7	24.8	23.0	79	113		
TOT	0	13	46	100	138	137	83	436		

JUNE

PERIOD: (PRIMARY) 1925-1971
(OVER-ALL) 1880-1971AREA 0007 ANTICOSTI ISLAND
49.4N 63.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	2	.2	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	2	.0	.3
14/16	.0	.0	.0	.0	.7	.3	.7	.3	.0	.0	12	.2	1.9
11/13	.0	.0	.0	.3	.8	1.0	1.5	.2	.0	.0	24	.0	4.0
9/10	.0	.0	.2	.8	1.5	2.2	.2	.0	.0	.0	29	.5	4.4
7/8	.0	.2	1.3	3.0	2.7	2.5	.5	.2	.0	.0	62	.7	9.8
6	.0	.0	1.2	2.0	1.3	.8	.2	.2	.0	.0	34	.8	4.9
5	.0	.0	2.5	3.0	2.5	.8	.2	.0	.0	.0	34	.8	8.3
4	.0	1.5	3.0	3.4	3.2	.8	.2	.0	.0	.0	72	.7	11.5
3	.3	1.2	3.9	4.4	1.5	.3	.0	.0	.0	.0	69	1.7	9.9
2	.0	1.3	4.4	3.4	2.0	.7	.0	.0	.0	.0	70	.7	11.1
1	.2	1.3	4.2	4.7	1.2	.2	.0	.0	.0	.0	70	.8	11.0
0	.7	1.2	3.4	2.7	.8	.3	.0	.0	.0	.0	51	.7	7.9
-1	.3	.5	.5	1.2	.3	.3	.0	.0	.0	.0	19	.7	2.5
-2	.0	.3	.3	1.3	.2	.0	.0	.0	.0	.0	13	.2	2.0
-3	.0	.5	.5	.3	.2	.0	.0	.0	.0	.0	9	.7	.8
-4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	6	48	183	113	62	20	7	1	1	393	9.3	90.7	
PCT	1.0	6.1	25.6	30.9	19.1	10.5	3.4	1.2	.2	.2	100.0	9.3	90.7

PERIOD: (OVER-ALL) 1943-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	.0	.0	.0	.0	.0	.6	.6	.0	2.3	.0	.0	.0	.0	.0	2.3
1-2	.0	1.0	.0	.0	.0	.0	1.9	.0	.0	.6	.0	.0	.0	.0	.0	.6
3-4	.0	.4	4.5	.4	.0	.0	5.4	.0	.0	.3	.0	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	1.8
7	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.3	6.4	.4	.0	.0	8.9	.0	.0	2.9	2.0	.6	.0	.0	.0	5.6

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.6	1.2	.0	.0	.0	2.8	.6	.0	.9	.0	.0	.0	.0	.0	1.5
1-2	.0	2.2	.4	.0	.0	.0	2.6	.0	1.9	.1	.0	.0	.0	.0	.0	2.0
3-4	.0	.6	1.3	.0	.0	.0	1.9	.0	.7	1.9	.0	.0	.0	.0	.0	2.6
5-6	.0	.4	1.2	.0	.0	.0	1.6	.0	.3	1.3	.0	.0	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.0	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.8	4.1	.0	.0	.0	8.9	.6	3.8	3.5	1.2	.0	.0	.0	.0	9.1

PERIOD: (OVER-ALL) 1963-1971

JUNE

AREA 0007 ANTICOSTI ISLAND
49.4N 63.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	3.2	.0	.0	.0	.0	3.7	1.9	1.9	.0	.0	.0	.0	3.4
1-2	.0	1.0	1.2	.0	.0	.0	2.2	1.2	2.6	1.2	.0	.0	.0	5.0
3-4	.0	1.0	.9	.4	.0	.0	2.3	.0	1.9	2.0	.7	.0	.0	4.7
5-6	.0	1.0	2.8	.0	.0	.0	3.8	.0	.0	.0	.1	.0	.0	.1
7	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.3	5.8	.4	.0	.0	13.0	9.1	6.0	3.9	.9	.1	.0	14.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.8	1.5	.0	.0	.0	.0	3.2	.0	1.9	.0	.0	.0	.0	1.9	
1-2	.6	3.9	1.8	.0	.0	.0	6.3	.0	3.7	2.6	.0	.0	.0	6.3	
3-4	.0	2.8	2.2	.0	.0	.0	7.2	.0	.7	3.2	.3	.0	.0	4.2	
5-6	.0	.0	.4	1.0	.0	.0	1.5	.0	.0	2.5	.6	.0	.0	3.1	
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.3	8.2	4.8	3.2	.4	.0	19.0	.0	6.3	8.5	.9	.0	.0	15.6	94.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HRT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.4	12.7	1.1	.0	.0	.0	28.2	
1-2	2.2	16.6	7.7	.0	.0	.0	26.5	
3-4	.0	7.7	15.5	9.9	.0	.0	27.1	
5-6	.0	1.7	9.4	1.7	.0	.0	12.7	
7	.0	.0	2.8	1.1	.0	.0	3.9	
8-9	.0	.0	.0	.6	.0	.0	.6	
10-11	.0	.0	.6	.0	.0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.6	.0	.0	.6	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	16.6	38.7	37.0	7.2	.6	.0	100.0	181

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.8	18.5	17.7	6.0	3.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	3
6-7	.0	.0	6.4	4.9	1.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	4
8-9	.0	.8	.0	1.9	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	5
10-11	.0	.8	.0	.0	.4	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	17.7	3.4	4.2	1.9	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	1
TOTAL	65	62	75	40	18	2	1	1	1	0	0	0	0	0	0	0	0	0	0	265	3
PCT	24.5	23.4	28.3	15.1	6.8	.8	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1923-1970
(OVER-ALL) 1874-1970AREA 0007 ANTICOSTI ISLAND
49.5N 62.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	6.5	3.9	.0	.0	.0	.0	.0	10.5	.0	.0	11.8	2.0	3.9	.0	71.9
NE	17.4	2.1	3.4	.0	.0	.0	.0	23.0	1.7	.9	21.7	.0	1.7	.0	51.9
E	12.1	.5	6.6	.0	.0	.0	.0	19.2	.7	.3	19.9	1.7	4.5	.0	54.1
SE	9.4	1.0	3.2	.0	.0	.0	.0	13.2	2.1	.0	22.6	1.3	4.5	.0	56.3
S	6.5	.6	3.6	.0	.0	.0	.0	9.8	1.9	2.1	16.3	1.2	3.9	.0	65.3
SW	3.2	2.1	.0	.0	.0	.0	.0	5.3	.9	.2	14.0	.2	6.8	.0	72.6
W	2.3	1.4	.0	.0	.0	.0	.0	3.7	.5	.3	7.8	1.4	5.9	.0	80.2
NW	3.1	.4	.9	.0	.0	.0	.0	4.4	2.7	.9	9.7	1.3	2.9	.0	79.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21.4	.0	7.1	.0	71.4
TOT PCT	6.6	1.1	2.3	.0	.0	.0	.0	9.8	1.3	.7	15.4	1.1	4.7	.0	67.3
TOT OBS:	1091														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	8.3	1.2	3.0	.0	.0	.0	.0	12.5	1.2	.6	14.0	.0	4.8	.0	67.6
06009	7.8	2.1	2.5	.0	.0	.0	.0	11.9	1.2	2.1	12.3	2.1	2.1	.0	68.7
12015	6.9	.9	2.5	.0	.0	.0	.0	10.4	.6	.3	22.4	.9	3.5	.0	62.1
18021	7.5	.8	.8	.0	.0	.0	.0	8.6	2.0	.0	10.6	1.6	7.5	.0	69.8
TOT PCT TOT OBS:	7.6 1151	1.2	2.3	.0	.0	.0	.0	10.9	1.2	.7	15.2	1.0	4.4	.0	66.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.6	1.8	.9	.3	.0	.0			3.6	9.4		2.1	5.4	4.2	7.1	4.4	2.0	3.5	.8
NE	.7	1.9	1.9	.7	.0	.0			5.1	12.2		5.1	3.6	5.0	6.6	5.0	7.1	2.6	7.3
E	1.4	6.6	4.6	.2	.0	.0			12.7	9.7		12.5	7.2	16.1	6.6	14.6	12.2	17.3	9.6
SE	1.6	6.5	6.0	.6	.0	.0			14.8	10.6		17.4	17.6	11.6	18.1	10.8	15.3	13.7	17.2
S	1.5	8.4	6.5	1.4	.0	.0			17.8	11.3		18.5	16.0	19.4	18.6	19.2	18.6	13.5	17.7
SW	.8	6.7	5.1	.6	.0	.0			13.2	10.9		12.0	15.1	12.5	19.6	10.3	14.5	13.5	13.4
W	1.3	7.7	8.8	1.2	.1	.0			19.1	11.6		19.1	20.7	19.8	11.0	20.2	18.1	20.1	21.7
NW	.9	4.7	4.5	.5	.1	.0			10.7	11.2		10.4	11.7	8.5	11.2	12.9	8.9	10.0	10.4
VAR	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0								3.0	.0		3.0	2.7	2.8	1.0	2.6	3.1	5.9	2.0
TOT OBS	138	518	447	65	3	0	1171			10.6		236	111	144	98	233	98	152	99
TOT PCT	11.8	44.2	38.7	5.6	.3	.0			100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40								00	06	12	18
N	1.6	1.6	.3	.1	.0				3.6	9.4		3.2	5.4	3.7	2.4
NE	1.5	2.1	1.1	.4	.0				5.1	12.2		4.6	5.7	5.7	4.5
E	4.5	6.2	1.9	.1	.0				12.7	9.7		10.8	12.3	13.9	14.2
SE	4.1	7.9	2.7	.0	.0				14.8	10.6		17.4	14.3	12.2	15.0
S	4.6	9.4	3.3	.5	.0				17.8	11.3		17.7	19.1	19.0	15.1
SW	3.2	7.5	2.3	.2	.0				13.2	10.9		13.0	15.4	11.6	13.4
W	4.4	11.1	3.4	.2	.1				19.1	11.6		19.6	16.2	19.6	20.7
NW	2.7	6.0	1.7	.1	.1				10.7	11.2		10.8	9.6	11.7	10.2
VAR	.0	.0	.0	.0	.0				.0	.0		.0	.0	.0	.0
CALM	3.0								3.0	.0		2.9	2.1	2.7	4.4
TOT OBS	348	607	195	19	2	1171				10.6		347	242	331	231
TOT PCT	29.7	51.8	16.7	1.6	.2				100.0			100.0	100.0	100.0	100.0

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(OVER-ALL) 1874-1970

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.9	7.8	43.2	38.6	6.9	.6	.0	11.1	100.0	347
06009	2.1	9.9	49.6	35.5	2.5	.4	.0	10.0	100.0	242
12015	2.7	8.8	46.5	38.1	3.9	.0	.0	10.2	100.0	331
18021	4.4	9.2	37.5	40.2	8.8	.0	.0	11.1	100.0	251
TOT	95	103	518	447	65	3	0	10.6		1171
PCT	3.0	8.8	44.2	38.2	5.6	.3	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	.1	.9	1.3		5.5
NE	.5	.6	1.2	3.0		6.3
E	2.8	1.5	5.0	7.8		5.9
SE	1.6	.8	2.5	5.8		6.2
S	3.4	.8	4.7	6.1		5.5
SW	2.9	3.6	2.9	3.9		4.7
W	8.6	3.0	6.0	3.0		3.9
NW	3.7	1.6	3.5	2.4		4.4
VAR	.0	.0	.0	.0		.0
CALM	1.3	.9	.9	.6		3.7
TOT OBS	136	69	147	180	532	5.1
TOT PCT	25.6	13.0	27.6	33.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.6	.2	.0	.0	.3	.5	.1	.0	.0	.1	1.3	
NE	.4	.0	.0	.9	1.3	.8	.0	.0	.0	.0	1.7	
E	2.0	.1	.4	1.4	3.0	1.5	.4	.1	.2	.4	7.7	
SE	1.0	*	.2	.3	2.3	1.2	.4	.3	.0	.2	4.6	
S	.7	.0	.7	.7	1.6	2.8	.9	.1	.3	.6	6.5	
SW	.4	.0	*	.3	1.9	.4	.1	.0	.2	.9	8.9	
W	1.0	.0	.2	.7	.7	.7	1.0	.1	.0	.6	15.6	
NW	.5	.0	.2	.2	.8	1.0	.7	*	.2	.6	7.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.2	.2	.4	.0	.4	.0	2.4	
TOT OBS	36	2	9	25	65	48	21	4	7	18	297	532
TOT PCT	6.8	.4	1.7	4.7	12.2	9.0	3.9	.8	1.3	3.4	55.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.3	3.6	4.3	4.3	4.5	4.5	4.5	4.5
>5000	1.6	4.1	4.8	5.0	5.2	5.2	5.2	5.2
>3500	3.0	7.3	8.6	8.9	9.1	9.1	9.1	9.1
>2000	5.9	14.3	17.2	17.9	18.1	18.1	18.1	18.1
>1000	10.4	23.3	27.9	28.8	29.2	29.9	30.1	30.1
>600	11.6	26.7	32.6	33.6	34.3	35.1	35.2	35.2
>300	12.0	27.7	34.2	35.2	36.0	36.7	36.9	36.9
>150	12.2	27.9	34.3	35.6	36.3	37.0	37.2	37.2
>0	12.2	27.9	34.9	36.3	37.0	38.8	43.1	44.2
TOTAL	66	156	195	203	207	217	241	247

TOTAL NUMBER OF OBS: 559

PCT FREQ NH <5/8: 55.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
16.0	15.8	10.3	7.3	5.0	6.8	6.0	4.8	21.8	6.2	601

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	.2	.1	.0	.1	.0	.0	.0	.5	
	NO PCP	.3	.5	1.4	1.3	1.7	.8	.9	.6	.0	.2	7.6	
	TOT %	.3	.5	1.5	1.5	1.8	.8	1.0	.6	.0	.2	8.1	
1/2<1	PCP	.0	.3	.1	.3	.0	.0	.2	.0	.0	.0	1.0	
	NO PCP	.1	.5	.6	1.0	.5	.5	.2	.4	.0	.0	3.9	
	TOT %	.1	.8	.8	1.3	.5	.5	.4	.4	.0	.0	4.9	
1<2	PCP	.0	.1	.4	.1	.1	.0	.0	.0	.0	.0	.8	
	NO PCP	.1	.0	.3	.6	.2	.2	.0	*	.0	.3	1.7	
	TOT %	.1	.1	.7	.8	.3	.2	.0	*	.0	.3	2.5	
2<5	PCP	.0	.5	.9	.6	.4	.1	.0	.1	.0	.0	2.7	
	NO PCP	.1	.1	1.0	.9	1.1	.8	.6	.3	.0	.2	5.0	
	TOT %	.1	.6	2.0	1.5	1.5	.9	.6	.4	.0	.2	7.7	
5<10	PCP	.3	.4	1.1	.5	1.1	.2	.3	.3	.0	.0	4.2	
	NO PCP	1.5	2.1	3.7	5.5	6.9	4.5	6.5	3.9	.0	1.3	36.1	
	TOT %	1.9	2.5	4.9	6.0	8.0	4.7	6.7	4.3	.0	1.3	40.2	
10+	PCP	*	.0	.0	.2	.0	.3	.1	*	.0	.0	.8	
	NO PCP	1.1	1.1	4.0	3.7	5.0	5.2	10.0	5.1	.0	.7	35.9	
	TOT %	1.2	1.1	4.0	3.9	5.0	5.5	10.1	5.1	.0	.7	36.6	
TOT OBS													1091
TOT PCT		9.6	5.6	13.8	14.9	17.2	12.6	18.8	10.8	.0	2.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.2	.3	.4	.2	*	.2	.2	.0	.2	1.7	
	4-10	.1	.1	.8	.4	1.2	.5	.5	.3	.0		3.9	
	11-21	.1	.2	.3	.5	.5	.4	.3	.1	.0		2.5	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	TOT %	.3	.5	1.4	1.4	2.0	1.0	1.0	.5	.0	.2	8.3	
1/2<1	0-3	.0	.0	.0	.2	.0	*	.1	.0	.0	.0	.3	
	4-10	*	.3	.4	.7	.3	.3	.0	.3	.0		2.4	
	11-21	.1	.2	.3	.4	.2	.2	.3	*	.0		1.7	
	22+	.0	.3	.0	.0	.0	.0	.0	.0	.0		.3	
	TOT %	.1	.8	.7	1.3	.5	.5	.3	.4	.0	.0	4.7	
1<2	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	.5	
	4-10	.1	*	.4	.4	*	.1	.0	*	.0		1.1	
	11-21	.0	.1	.2	.2	.1	.1	.0	.0	.0		.6	
	22+	.0	.0	.1	*	.1	.0	.0	.0	.0		.2	
	TOT %	.1	.1	.7	.7	.3	.2	.0	*	.0	.3	2.4	
2<5	0-3	.0	.0	.1	.0	*	.2	.1	.1	.0	.2	.7	
	4-10	.1	.2	.8	.9	.6	.2	.3	.1	.0		3.2	
	11-21	.0	.3	1.0	.5	.6	.5	.3	*	.0		3.3	
	22+	.0	*	*	*	.3	.1	.0	.1	.0		.5	
	TOT %	.1	.5	1.9	1.4	1.5	1.0	.8	.4	.0	.2	7.8	
5<10	0-3	.3	.3	.5	.3	.2	.1	.2	.7	.0	1.6	4.2	
	4-10	.8	.8	2.4	2.4	3.6	2.4	2.8	1.9	.0		17.2	
	11-21	.5	.9	1.7	3.1	3.3	1.7	3.5	1.6	.0		16.4	
	22+	.2	.4	.0	*	.8	.3	.5	.2	.0		2.4	
	TOT %	1.8	2.4	4.7	5.9	7.8	4.6	7.0	4.5	.0	1.6	40.1	
10+	0-3	.2	.2	.4	.5	1.0	.4	.7	.0	.0	.6	4.1	
	4-10	.7	.5	2.0	1.9	2.3	2.8	3.8	1.9	.0		15.8	
	11-21	.3	.3	1.4	1.2	1.6	2.1	4.8	2.8	.0		14.6	
	22+	.1	*	.0	.2	.3	.2	.9	.4	.0		2.2	
	TOT %	1.2	1.1	3.9	3.8	5.3	5.5	10.2	5.1	.0	.6	36.7	
TOT OBS													1094
TOT PCT		3.6	5.4	13.3	14.6	17.5	12.8	19.3	10.8	.0	2.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH $\geq 4/8$) AND
OCCURRENCE OF NH $< 5/8$ BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH $< 5/8$ ANY HGT	TOTAL OBS
00003	6.5	.6	.6	5.8	9.7	6.5	2.6	.6	1.3	2.6	37.0	63.0	154
06009	8.1	.0	.8	5.6	12.9	8.9	4.8	2.4	.0	1.6	45.2	54.8	124
12015	10.4	.6	1.9	6.5	12.3	11.7	3.9	.0	1.9	3.2	52.6	47.4	154
18021	2.1	.0	2.8	2.1	11.9	8.4	4.2	.0	1.4	4.9	37.8	62.2	143
TOT	39	2	9	29	67	51	22	4	7	18	248	327	575
PCT	6.8	.3	1.6	5.0	11.7	8.9	3.8	.7	1.2	3.1	43.1	56.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	$< 1/2$	$1/2 < 1$	$1 < 2$	$2 < 5$	$5 < 10$	$10+$	TOTAL OBS
00003	7.8	3.8	2.0	9.6	45.2	31.6	345
06009	6.0	3.6	2.4	6.4	35.2	46.4	250
12015	13.5	6.6	3.0	7.8	37.5	31.5	333
18021	6.8	4.1	2.6	7.5	41.0	38.0	266
TOT	103	55	30	95	478	431	1194
PCT	8.8	4.6	2.5	6.0	40.0	36.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH $\geq 4/8$) BY HOUR

HOUR (GMT)	< 150 $< 50YD$	< 600 < 1	< 1000 < 5	$1000+$ AND $5+$	NH $< 5/8$ AND $5+$	TOTAL OBS
00003	6.8	11.0	30.8	13.1	54.1	146
06009	8.3	10.7	22.3	23.6	52.1	121
12015	10.5	16.4	29.6	27.6	42.8	152
18021	2.1	7.1	20.0	23.0	55.0	140
TOT	39	64	145	130	294	559
PCT	7.0	11.4	23.9	23.3	50.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
73/79	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
70/74	.0	.0	.0	.1	.1	1.0	.0	.1	10	1.5
65/69	.0	.0	.0	.3	1.0	1.3	.7	1.5	32	4.9
60/64	.0	.0	.3	.0	1.3	5.0	8.9	7.9	158	23.4
55/59	.0	.0	.0	.0	.7	4.5	16.6	16.6	259	38.4
50/54	.0	.0	.0	.0	.3	1.3	9.3	16.3	185	27.4
45/49	.0	.0	.0	.0	.0	.4	1.3	2.4	28	4.2
TOTAL	0	0	2	3	25	92	250	302	674	100.0
PCT	.0	.0	.3	.4	3.7	13.6	37.1	44.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
73/79	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
70/74	.1	.1	.0	.0	.1	.6	.3	*	.0	.1
65/69	.1	.0	.2	.5	1.5	.7	.9	.6	.0	.3
60/64	.3	.5	3.6	3.7	4.0	3.5	4.9	1.9	.0	1.2
55/59	1.1	.9	5.8	7.8	8.0	4.7	7.3	2.3	.0	.4
50/54	1.0	2.0	5.0	3.0	3.8	2.7	5.4	3.7	.0	.9
45/49	.5	.4	1.4	.2	.3	*	.7	.6	.0	.0
TOTAL	3.2	4.0	15.9	15.2	17.7	12.3	19.4	9.3	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	67	64	57	50	47	46	57.1	366
06009	76	66	63	55	48	46	44	55.8	263
12015	72	71	65	57	49	46	42	56.8	358
18021	73	72	68	58	51	48	47	58.7	274
TOT	76	70	65	57	49	46	42	57.1	1261

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.5	1.4	12.1	47.0	39.1	88	215		
06009	.0	.0	.7	5.4	32.2	61.7	91	149		
12015	.0	1.0	3.7	16.2	29.3	49.7	88	191		
18021	.0	1.9	9.3	21.0	34.6	33.3	84	162		
TOT	0	6	26	99	261	325	88	717		

JULY

PERIOD: (PRIMARY) 1923-1970
(OVER-ALL) 1874-1970AREA 0007 ANTICOSTI ISLAND
49.3N 62.6W

TABLE 17

PCT FRPD OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
20/22	.0	.0	.0	.0	.1	.1	.1	.1	.0	4	.0	.4
17/19	.0	.0	.0	.0	.2	.1	.1	.0	.0	4	.1	.3
14/16	.0	.0	.0	.2	.2	.2	.0	.5	.0	11	.1	1.0
11/13	.0	.0	.1	.1	.3	.9	.6	.2	.0	22	.1	2.2
9/10	.0	.0	.1	.5	1.0	1.6	.8	.1	.2	40	.2	3.9
7/8	.0	.0	.6	2.3	3.0	2.8	.5	.1	.0	90	1.4	7.9
6	.0	.1	.4	2.5	2.0	1.8	.5	.1	.0	71	1.1	6.2
5	.0	.1	.6	2.5	2.1	2.2	.2	.2	.0	76	.9	6.9
4	.0	.0	.7	3.8	4.5	2.1	.5	.0	.0	112	2.1	9.3
3	.0	.2	1.0	3.4	4.6	1.4	.4	.0	.0	107	2.0	9.1
2	.0	.3	2.2	5.3	3.3	1.4	.3	.0	.0	126	1.6	11.5
1	.0	.5	2.0	5.6	2.7	1.1	.0	.0	.0	115	1.9	10.0
0	.0	.5	2.2	3.0	2.8	.2	.0	.0	.0	84	1.9	6.8
-1	.1	.2	1.3	1.6	.7	.2	.0	.0	.0	40	1.2	2.9
-2	.0	.5	1.2	1.4	.4	.0	.0	.0	.0	35	.8	2.8
-3	.0	.0	.5	.6	.3	.1	.0	.0	.0	15	.3	1.2
-4	.0	.1	.1	.2	.2	.1	.0	.0	.0	7	.1	.6
-5	.0	.1	.3	.0	.0	.0	.0	.0	.0	4	.1	.3
-6	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
-7/-8	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	26	131	319	274	159	41	13	2	966	154	812
PCT	.1	2.7	13.6	33.0	28.4	16.3	4.2	1.3	.2	100.0	15.9	84.1

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.7	.0	.0	.0	.0	.7	.8	.1	1.2	.0	.0	.0	2.1
3-4	.0	.4	.4	.6	.0	.0	1.4	.0	.1	.7	.2	.0	.0	1.0
5-6	.0	.4	.3	.0	.0	.0	.7	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	.7	.6	.0	.0	3.7	.8	.8	2.3	.2	.0	.0	4.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	3.8	.0	.0	.0	.0	4.2	.5	.5	.0	.0	.0	.0	1.0
1-2	.7	3.8	3.4	.0	.0	.0	7.9	.1	3.6	1.4	.0	.0	.0	5.1
3-4	.0	.7	3.0	.0	.0	.0	3.7	.0	1.2	1.0	.4	.0	.0	2.5
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	1.4	.0	.0	.0	1.4
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	8.3	7.4	.0	.0	.0	16.8	.6	5.3	3.8	.5	.0	.0	10.2

PERIOD: (OVER-ALL) 1963-1970

JULY

AREA 0007 ANTICOSTI ISLAND
49.5N 62.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.0	2.8	.3	.0	.0	.0		4.1	.6	2.3	.1	.0	.0	.0		2.9
1-2	.8	4.6	1.1	.0	.0	.0		6.5	.0	2.1	1.7	.0	.0	.0		3.7
3-4	.0	2.0	1.8	.3	.0	.0		4.0	.0	2.5	3.1	.2	.0	.0		5.8
5-6	.0	.0	.4	.0	.0	.0		.4	.0	.0	.5	.0	.0	.0		.5
7	.0	.0	.7	.0	.0	.0		.7	.0	.0	.5	.0	.0	.0		.5
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.4	.0	.0	.0	.0		.4
10-11	.0	.0	.0	.6	.0	.0		.6	.0	.0	.0	.1	.0	.0		.1
12	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.8	9.4	4.2	1.3	.0	.0		16.7	.6	7.2	5.9	.3	.0	.0		13.9

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	1.1	4.2	.8	.0	.0	.0		6.1	.0	.9	.0	.0	.0	.0		.9	
1-2	.0	1.7	3.6	.0	.0	.0		5.3	.0	1.1	1.4	.0	.0	.0		2.5	
3-4	.0	1.8	4.6	.3	.0	.0		6.7	.0	1.3	.7	.0	.0	.0		2.0	
5-6	.0	.0	.3	.3	.0	.0		.6	.0	.0	2.5	.1	.0	.0		2.5	
7	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.5	.0	.0		.5	
8-9	.0	.0	.4	.0	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.3	.0		.3	.0	.0	.0	.4	.1	.0		.5	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.4	.0		.4	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	1.1	7.6	9.7	.9	.3	.0		19.6	.0	3.2	4.5	1.0	.5	.0		9.2	94.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.7	15.5	1.1	.0	.0	.0	28.3	
1-2	2.3	18.1	13.2	.0	.0	.0	33.6	
3-4	.0	9.4	14.7	1.9	.0	.0	26.0	
5-6	.0	.4	6.0	.4	.0	.0	6.8	
7	.0	.0	1.5	.8	.0	.0	2.3	
8-9	.0	.4	.4	.0	.0	.0	.8	
10-11	.0	.0	.0	1.1	.4	.0	1.5	
12	.0	.0	.0	.4	.4	.0	.8	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.0	43.8	37.0	4.5	.8	.0	100.0	265

PERIOD: (OVER-ALL) 1950-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.5	29.4	18.3	2.8	1.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	226	2
6-7	.0	.3	4.7	3.3	1.4	.8	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	3
8-9	.0	.3	.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	4
10-11	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
12-13	.0	.0	.0	.3	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	13.0	4.4	1.9	.6	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	1
TOTAL	92	124	92	28	12	4	5	3	1	0	0	0	0	0	0	0	0	0	0	361	2
PCT	25.5	34.3	25.5	7.8	3.3	1.1	1.4	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1874-1970

AUGUST

AREA 0007 ANTICOSTI ISLAND
49.3N 62.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG MEA
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST RLVG SNOW	
N	7.2	5.6	8.2	.0	.0	.0	.0	21.0	3.1	2.1	3.1	.0	2.1	.0	68.7
NE	14.6	.5	4.5	.0	.0	.0	.0	19.7	3.5	.0	8.1	4.0	.0	.0	64.6
E	13.4	.0	5.4	.0	.0	.0	.0	18.1	3.7	.5	16.3	.0	2.0	.0	59.4
SE	12.2	1.1	5.3	.0	.0	.0	.0	18.3	1.1	1.6	13.8	1.1	2.7	.0	61.5
S	10.5	3.0	2.9	.0	.0	.0	.6	17.1	.0	.0	12.2	1.2	2.6	.0	66.9
SW	4.2	3.4	1.2	.0	.0	.0	.0	8.8	.6	.9	7.3	.7	1.8	.0	80.1
W	1.3	1.4	.4	.0	.0	.0	.0	3.2	2.2	.2	5.4	.3	1.7	.0	87.4
NW	2.5	1.6	3.3	.0	.0	.0	.0	7.6	.4	.0	4.7	.0	1.0	.0	86.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	10.0	.0	10.0	.0	76.7
TOT PCT	6.2	2.0	2.7	.0	.0	.0	.1	10.9	1.5	.6	8.6	.7	2.0	.0	75.9
TOT OBS:	1076														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG MEA
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST RLVG SNOW	
0000	5.5	1.7	3.1	.0	.0	.0	.0	10.3	1.0	1.4	8.3	.7	1.0	.0	77.6
0600	7.8	2.6	3.0	.0	.0	.0	.0	13.4	1.7	.9	6.5	.9	2.2	.0	74.6
1200	6.9	2.3	2.6	.0	.0	.0	.0	11.6	1.4	.0	12.1	.3	1.7	.0	72.8
1800	4.3	.8	2.7	.0	.0	.0	.4	8.2	1.6	.0	7.1	.8	3.1	.0	79.2
TOT PCT	6.1	1.9	2.8	.0	.0	.0	.1	10.9	1.4	.5	8.8	.6	2.0	.0	75.9
TOT OBS:	1123														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WNO DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.5	2.6	1.7	.1	.0	.0		4.9	9.2	4.5	3.3	4.0	9.1	7.3	7.5	.3	3.2
NE	.3	2.1	2.1	.4	.2	.0		5.0	11.7	5.3	4.2	9.2	2.7	4.0	4.0	6.4	2.7
E	.9	4.3	3.0	.5	.0	.0		8.8	10.2	8.3	5.3	6.9	7.0	12.6	8.0	11.3	2.7
SE	.8	3.8	3.0	.5	.0	.0		8.1	10.5	9.2	11.1	7.4	9.9	8.2	7.0	8.4	8.1
S	.9	7.6	6.2	.9	.0	.0		15.5	11.2	14.8	13.1	13.1	19.1	16.9	17.0	12.9	18.8
SW	1.0	6.2	5.1	.7	.8	.0		15.0	10.2	15.0	19.7	20.6	16.7	12.2	14.8	10.3	17.2
W	1.5	11.6	11.3	3.6	.3	.0		28.3	12.8	31.3	24.7	20.8	24.2	24.2	31.8	34.0	38.4
NW	1.4	5.5	4.0	.7	.1	.0		11.7	10.5	10.3	16.4	11.9	9.1	13.0	8.0	13.7	8.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8							2.8	.0	1.4	2.2	6.0	2.2	3.6	2.0	2.9	.0
TOT OBS	119	545	433	88	7	0	1192		10.9	219	90	149	93	275	100	173	93
TOT PCT	10.0	45.7	36.3	7.4	.6	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	1.8	2.8	.3	.0	.0		4.9	9.2	4.1	6.0	7.3	1.3		
NE	1.6	2.7	.5	.3	.0		5.0	11.7	4.9	6.7	4.0	5.1		
E	3.0	4.4	1.3	.1	.0		8.8	10.2	7.4	6.9	11.4	8.3		
SE	2.4	4.4	1.3	.0	.0		8.1	10.5	9.8	8.4	6.4	8.3		
S	4.2	7.7	3.4	.2	.0		13.5	11.2	14.3	15.4	16.9	14.9		
SW	3.2	7.8	1.6	.4	.0		13.0	10.2	16.3	19.1	12.9	12.7		
W	6.4	13.1	7.7	1.1	.0		28.3	12.8	29.4	22.1	26.2	35.5		
NW	4.1	5.4	1.9	.3	.0		11.7	10.5	12.1	10.8	11.7	12.0		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	2.8						2.8	.0	1.6	4.5	3.2	1.9		
TOT OBS	374	575	214	29	0	1192		10.9	309	242	375	266		
TOT PCT	31.4	48.2	18.0	2.4	.0		100.0		100.0	100.0	100.0	100.0		

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.6	7.8	49.8	33.0	7.4	.3	.0	10.6	100.0	309
06009	4.1	7.9	47.9	34.7	5.0	.0	.0	10.1	100.0	242
12015	3.2	7.5	46.4	36.3	6.4	.3	.0	10.3	100.0	375
18021	1.9	5.6	38.0	41.7	10.9	1.9	.0	12.6	100.0	266
TOT	73	86	543	433	88	7	0	10.9		1192
PCT	2.8	7.2	45.7	36.3	7.4	.6	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	1.2	.2	1.7	1.2		5.1
NE	.4	.6	1.6	3.2		6.5
E	1.1	.9	1.6	5.3		6.3
SE	1.3	.7	1.1	4.0		5.9
S	2.5	1.9	2.2	4.1		5.1
SW	5.3	1.9	5.2	3.4		4.4
W	15.7	5.7	7.5	4.0		3.5
NW	5.9	1.3	1.5	2.6		3.4
VAR	.0	.0	.0	.0		.0
CALM	2.3	.2	.8	.2		2.3
TOT OBS	186	70	120	146	522	4.4
TOT PCT	35.6	13.4	23.0	28.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.3	.0	.0	.1	.8	1.1	.1	.0	.0	.0	.0	2.0
NE	.5	.7	.4	.4	1.0	.3	.6	.2	.0	.0	.0	2.1
E	.8	.7	.1	1.1	2.0	1.3	.4	.2	.0	.0	.0	2.7
SE	.8	.0	.2	.9	.6	1.3	.2	.2	.4	.0	.0	2.4
S	.6	.0	.0	1.0	1.7	.5	.4	.0	.1	.4	.0	6.0
SW	.4	.1	.0	1.9	1.5	1.3	.8	.0	.1	.4	.0	9.2
W	1.0	.4	.0	1.0	1.5	2.3	.5	.4	.2	.7	.0	25.0
NW	.5	.0	.2	.5	1.4	.9	.0	.0	.0	.0	.0	7.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.3
TOT OBS	25	4	5	36	55	47	16	5	5	9	315	522
TOT PCT	4.8	.8	1.0	6.9	10.5	9.0	3.1	1.0	1.0	1.7	60.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8
>5000	3.1	3.7	3.7	3.7	3.7	3.7	3.7	3.7
>3500	5.2	6.3	6.4	6.4	6.4	6.4	6.4	6.4
>2000	10.7	14.2	15.1	15.1	15.3	15.3	15.3	15.3
>1000	15.3	21.9	24.5	24.9	25.2	25.6	25.8	25.8
>600	17.7	26.7	31.3	31.7	32.0	32.4	32.6	32.6
>300	18.2	27.4	32.2	33.0	33.3	33.7	33.9	33.9
>150	18.2	27.4	33.0	33.7	34.1	34.4	34.6	34.6
>0	18.2	27.4	33.1	34.1	34.4	37.0	38.5	39.2
TOTAL	99	149	180	185	187	201	209	213

TOTAL NUMBER OF OBS: 543

PCT FREQ NH <5/8: 60.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
19.4	17.9	11.9	6.9	4.5	5.0	5.9	6.0	19.3	4.3	581

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.1	.0	.0	.2	.1	.1	.0	.0	.7	
	NO PCP	.1	.3	.6	.7	1.1	.5	.9	.3	.0	.0	4.5	
	TOT %	.2	.5	.7	.7	1.1	.7	1.0	.4	.0	.0	5.2	
1/2<1	PCP	.0	.0	.4	.2	.3	.0	.1	.0	.0	.0	1.1	
	NO PCP	.0	.0	.4	.2	.2	.7	.2	.1	.0	.0	1.3	
	TOT %	.0	.0	.8	.4	.5	.2	.3	.1	.0	.0	2.4	
1<2	PCP	.0	.1	.0	.2	.0	.1	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.2	.1	.3	.1	.1	.0	.0	.2	1.1	
	TOT %	.0	.2	.3	.3	.3	.2	.1	.0	.0	.2	1.6	
2<5	PCP	.0	.0	.5	.2	.6	.7	.2	.1	.0	.0	1.9	
	NO PCP	.1	.1	.2	.8	.9	.6	.8	.2	.0	.1	3.7	
	TOT %	.1	.1	.7	1.0	1.5	.9	.9	.3	.0	.1	5.6	
5<10	PCP	.7	.6	.5	.8	1.3	.8	.3	.6	.0	.0	5.6	
	NO PCP	1.0	.9	2.2	2.7	5.7	5.5	7.9	3.7	.0	.7	30.2	
	TOT %	1.7	1.4	2.7	3.5	7.0	6.4	8.2	4.2	.0	.7	35.8	
10+	PCP	.2	.0	.1	.1	.4	.0	.2	.1	.0	.0	1.1	
	NO PCP	2.3	2.3	4.1	2.7	4.6	7.1	17.0	6.3	.0	1.8	48.3	
	TOT %	2.5	2.3	4.2	2.9	5.0	7.2	17.2	6.4	.0	1.8	49.4	
TOT OBS													1075
TOT PCT		4.5	4.6	9.4	8.8	15.3	15.5	27.8	11.4	.0	2.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.1	.2	.0	.0	.0	.1	.0	.0	.5	
	4-10	.1	.2	.5	.3	.6	.6	1.0	.2	.0	.0	3.4	
	11-21	.0	.2	.1	.1	.5	.1	.0	.1	.0	.0	1.2	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	.2	.5	.7	.7	1.0	.7	1.1	.4	.0	.0	5.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.3	.2	.1	.2	.3	.1	.0	.0	1.3	
	11-21	.0	.0	.2	.2	.3	.0	.0	.0	.0	.0	.7	
	22+	.0	.0	.3	.0	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.8	.4	.3	.2	.3	.1	.0	.1	2.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.1	.1	.0	.1	.2	.0	.0	.0	.0	.5	
	11-21	.0	.1	.1	.0	.2	.0	.1	.0	.0	.0	.6	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.2	.3	.3	.3	.2	.1	.0	.0	.2	1.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.2	
	4-10	.1	.0	.2	.5	.6	.2	.7	.2	.0	.0	2.5	
	11-21	.1	.1	.4	.4	.7	.3	.3	.0	.0	.0	2.3	
	22+	.0	.0	.2	.1	.3	.2	.0	.0	.0	.0	.7	
	TOT %	.1	.1	.8	1.0	1.5	.8	1.0	.3	.0	.1	5.8	
5<10	0-3	.0	.1	.2	.3	.4	.7	.4	.7	.0	.8	3.7	
	4-10	.9	.6	1.5	1.6	2.9	2.8	1.8	1.8	.0	.0	13.9	
	11-21	.8	.4	.7	1.3	3.1	2.4	4.2	1.5	.0	.0	14.5	
	22+	.0	.2	.1	.1	.4	.3	1.6	.2	.0	.0	3.1	
	TOT %	1.7	1.4	2.6	3.3	6.9	6.2	8.1	4.2	.0	.8	35.2	
10+	0-3	.4	.1	.6	.4	.4	.3	1.0	.6	.0	1.8	5.6	
	4-10	1.4	1.2	2.0	1.3	3.0	4.5	7.5	3.0	.0	.0	23.9	
	11-21	.8	.9	1.4	1.1	1.4	2.2	6.9	2.2	.0	.0	17.1	
	22+	.1	.2	.0	.1	.1	.2	2.0	.5	.0	.0	3.2	
	TOT %	2.7	2.4	4.0	2.9	4.8	7.2	17.5	6.4	.0	1.8	49.8	
TOT OBS													1113
TOT PCT		4.8	4.7	9.2	8.6	15.0	15.3	28.1	11.4	.0	3.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	3.6	.0	1.4	6.4	13.6	8.6	2.1	1.4	.7	1.4	39.3	60.7	140
06009	1.8	.0	.9	5.5	6.4	8.2	1.8	1.8	1.8	3.6	31.8	68.2	110
12015	9.0	.0	1.3	6.4	9.6	9.0	3.8	.0	1.3	1.9	42.3	57.7	156
18021	2.6	2.6	1.3	7.8	10.4	8.4	3.2	.6	.0	.6	37.7	62.3	154
TOT	25	4	7	37	57	48	16	5	5	10	214	346	560
PCT	4.5	.7	1.3	6.6	10.2	8.6	2.9	.9	.9	1.8	38.2	61.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	5.3	3.3	2.0	5.3	38.3	45.9	303
06009	4.2	2.1	2.1	4.6	33.2	53.8	238
12015	8.4	3.1	1.7	3.9	37.4	45.5	356
18021	1.9	1.5	.4	9.5	31.5	55.1	263
TOT	61	30	18	66	411	574	1160
PCT	5.3	2.6	1.6	5.7	35.4	49.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	3.7	6.7	21.6	23.9	54.5	134
06009	1.9	2.8	13.1	19.6	67.3	107
12015	9.2	12.4	22.2	22.2	55.6	153
18021	2.7	6.7	20.1	21.5	58.4	149
TOT	25	41	107	119	317	543
PCT	4.6	7.6	19.7	21.9	58.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.1	.1	.0	.0	2	.3
65/69	.0	.0	.0	.1	.9	1.2	1.2	.9	29	4.3
60/64	.0	.0	.1	.1	2.2	7.0	9.8	6.4	173	25.8
55/59	.0	.0	.0	.1	1.3	8.2	19.8	18.3	321	47.8
50/54	.0	.0	.0	.0	.9	1.5	6.7	10.3	126	18.8
45/49	.0	.0	.0	.0	.0	.0	1.3	1.5	19	2.8
40/44	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	1	3	33	121	262	251	671	100.0
PCT	.0	.0	.1	.4	4.9	18.0	39.0	37.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0
65/69	.0	.0	.1	.5	.7	.6	1.7	.4	.0	.3
60/64	.2	.9	1.2	1.9	4.2	4.9	8.8	2.2	.0	1.3
55/59	2.3	2.0	4.1	3.7	8.2	7.2	14.9	4.7	.0	.7
50/54	2.0	1.8	1.9	2.0	1.8	1.9	4.1	2.6	.0	.7
45/49	.4	.3	.3	.0	.0	.4	.8	.3	.0	.3
40/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
TOTAL	5.0	5.1	7.6	8.1	14.9	15.2	30.5	10.2	.0	3.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	68	64	57	51	45	44	57.3	321
06009	81	76	64	56	50	46	43	56.4	251
12015	76	70	64	58	50	46	46	57.7	381
18021	75	73	68	59	53	49	48	59.6	270
TOT	81	70	65	57	50	47	43	57.8	1223

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	3.2	16.0	40.6	40.1	87	187
06009	.0	.0	.0	9.3	47.1	43.6	89	140
12015	.0	.0	3.9	17.4	37.2	41.5	87	207
18021	.0	2.4	12.5	27.4	30.4	27.4	82	168
TOT	0	4	35	125	270	268	86	702

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(OVER-ALL) 1874-1970

AUGUST

AREA 0007 ANTICOSTI ISLAND
49.5N 62.4W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	M FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
14/16	.0	.0	.0	.0	.1	.0	.1	.0	.1	3	.0	.3
11/13	.0	.0	.0	.0	.5	.4	.5	.2	.3	21	.1	2.0
9/10	.0	.0	.2	.3	.3	1.3	.8	.1	.0	30	.2	2.8
7/A	.0	.0	.2	1.0	2.4	1.9	.9	.1	.0	65	.5	6.1
6	.0	.0	.3	.9	2.0	1.2	.3	.0	.0	47	.4	4.4
5	.0	.0	.1	2.2	2.6	2.7	.1	.0	.0	77	.8	7.0
4	.0	.2	.5	2.1	4.3	3.7	.5	.0	.0	111	1.0	10.3
3	.0	.1	.4	2.9	4.3	1.4	.6	.0	.0	98	.8	9.1
2	.0	.0	1.5	3.6	6.8	2.4	.1	.0	.0	142	1.1	13.3
1	.2	.3	.6	4.5	7.7	1.0	.2	.0	.0	143	1.2	13.3
0	.0	.2	.9	4.8	3.4	.4	.0	.0	.0	95	.9	8.7
-1	.0	.0	1.0	2.7	1.0	.3	.1	.0	.0	60	.9	5.2
-2	.0	.1	.4	1.9	.8	.0	.0	.0	.0	32	.0	3.3
-3	.0	.1	.6	.8	.3	.0	.0	.0	.0	18	.1	1.7
-4	.0	.1	.5	.8	.3	.1	.0	.0	.0	18	.0	1.8
-5	.0	.1	.4	.5	.3	.3	.0	.0	.0	16	.1	1.5
-6	.0	.0	.2	.0	.0	.1	.0	.0	.0	3	.0	.3
-7/-8	.0	.0	.0	.1	.1	.1	.0	.0	.0	3	.0	.3
TOTAL	2	12	78	288	376	176	42	6	6	984	8.1	90.3
PCT	.2	1.2	7.9	29.3	38.2	17.4	4.3	.4	.6	100.0	8.2	91.8

PERIOD: (OVER-ALL) 1943-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.0	.0	.0	.0	.3	.3	.1	.0	.0	.0	.0	.4
1-2	.0	.3	.0	.0	.0	.0	.3	.3	.4	1.1	.0	.0	.0	1.8
3-4	.0	1.3	1.2	.0	.0	.0	2.5	.0	.7	1.8	.0	.0	.0	2.5
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	2.3	.0	.0	.0	4.4	.7	1.2	3.0	.3	.0	.0	5.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.2	.0	.0	.0	.0	1.2	.7	.1	.1	.0	.0	.0	.8
1-2	.0	2.6	1.6	.0	.0	.0	4.2	.3	1.9	.8	.0	.0	.0	3.0
3-4	.0	.3	.3	.0	.0	.0	.6	.0	.8	1.3	.0	.0	.0	2.1
5-6	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.1	2.8	.0	.0	.0	6.9	1.0	2.8	2.2	.7	.0	.0	6.6

PERIOD: (OVER-ALL) 1963-1970

AUGUST

AREA 0007 ANTICOSTI ISLAND
49.5N 62.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	2.9	.6	.0	.0	.0		3.5	.3	4.4	.0	.0	.0	.0		4.7
1-2	.6	1.9	1.4	.0	.0	.0		3.9	.1	4.1	1.3	.0	.0	.0		5.5
3-4	.0	.9	2.3	.0	.0	.0		3.2	.0	1.3	1.9	.0	.0	.0		3.2
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.3	1.3	.2	.0	.0		1.8
7	.0	.0	.0	.3	.0	.0		.3	.0	.3	.3	.4	.0	.0		1.1
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.6	5.8	4.3	.3	.0	.0		10.9	.4	10.4	4.8	.6	.0	.0		16.2

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	2.0	3.3	.3	.0	.0	.0		5.9	1.3	2.3	.0	.0	.0	.0		3.6
1-2	.0	8.0	4.1	.0	.0	.0		12.1	.3	1.5	.8	.0	.0	.0		2.7
3-4	.0	3.9	5.9	.3	.0	.0		10.2	.0	2.5	2.4	.0	.0	.0		4.9
5-6	.0	.0	4.4	.8	.0	.0		5.3	.0	.0	.5	.0	.0	.0		.5
7	.0	.0	1.0	.3	.0	.0		1.3	.0	.0	.0	.3	.0	.0		.3
8-9	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	2.0	15.4	15.8	1.8	.0	.0		35.1	1.7	6.3	3.8	.3	.0	.0		97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.2	14.8	1.0	.0	.0	.0	23.9	
1-2	2.3	20.3	10.8	.0	.0	.0	33.4	
3-4	.3	11.5	16.7	.3	.0	.0	28.9	
5-6	.0	.3	7.9	1.0	.0	.0	9.2	
7	.0	.3	1.6	1.3	.0	.0	3.3	
8-9	.0	.0	.0	.7	.0	.0	.7	
10-11	.0	.0	.0	.7	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.8	47.2	38.0	3.9	.0	.0	100.0	305

PERIOD: (OVER-ALL) 1951-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.8	23.3	19.8	8.0	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	254
6-7	.0	.5	6.0	6.3	1.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61
8-9	.0	.3	.5	.5	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	9.5	4.5	2.5	.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72
TOTAL	81	114	117	61	17	3	3	1	2	0	0	0	0	0	0	0	0	0	0	0	399
PCT	20.3	28.6	29.3	15.3	4.3	.8	.8	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1874-1970

SEPTEMBER

AREA 0007 ANTICOSTI ISLAND
49.3N 62.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.7	.9	3.3	.0	.0	.0	.0	8.9	1.9	.9	1.9	1.4	.0	.0	85.0
NE	12.4	.0	3.4	.0	.0	.0	.0	15.8	1.3	2.0	9.4	1.3	.0	.0	75.5
E	13.3	3.9	6.4	.0	.0	.0	.0	23.5	.0	.0	9.4	.0	1.1	.0	66.0
SE	16.9	2.1	1.4	.0	.0	.0	.0	20.4	.0	1.4	13.7	.4	1.4	.0	64.1
S	11.2	3.7	1.8	.0	.0	.0	.0	16.1	.8	.8	9.4	1.4	3.9	.0	67.6
SW	5.9	3.8	1.1	.0	.0	.0	.0	10.7	1.1	.0	9.3	.7	1.8	.0	76.4
W	1.3	1.7	.7	.0	.0	.0	.0	3.7	.3	.3	5.3	.5	1.5	.3	88.1
NW	2.3	1.0	1.6	.0	.0	.0	.0	4.9	.0	.0	2.4	.8	.0	.0	91.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	3.1	.0	.0	.0	.0	3.1	.0	.0	6.3	.0	.0	.0	90.6
TOT PCT	6.1	2.2	1.9	.0	.0	.0	.0	10.1	.5	.4	6.7	.7	1.3	.1	80.3
TOT OBS:	1114														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.3	1.7	1.4	.0	.0	.0	.0	7.2	.6	.6	4.9	.3	.9	.3	85.3
0600	8.3	2.1	3.3	.0	.0	.0	.0	13.6	.0	.8	5.8	.4	1.7	.0	78.5
1200	6.7	2.9	2.2	.0	.0	.0	.0	11.8	.3	.3	11.5	.3	1.6	.0	74.1
1800	5.2	1.9	2.2	.0	.0	.0	.0	9.4	1.1	.0	6.4	1.9	1.5	.0	79.8
TOT PCT	6.0	2.1	2.2	.0	.0	.0	.0	10.3	.5	.4	7.2	.7	1.4	.1	79.6
TOT OBS:	1169														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	1.7	2.4	.2	.0	*		4.8	11.7		4.4	5.0	5.1	8.8	4.4	4.3	3.0	6.1
NE	.3	2.4	1.5	2.1	.0	.0		6.4	14.8		3.2	4.7	8.5	9.4	9.2	7.2	6.5	2.8
E	.4	3.3	3.0	1.0	.1	.0		7.7	12.9		6.9	4.5	10.1	3.4	11.0	4.5	8.3	7.3
SE	.5	3.5	2.0	.6	.1	.0		6.7	11.3		5.6	14.6	5.6	9.7	7.0	4.3	6.0	3.5
S	.9	5.3	3.9	.7	.2	.0		11.1	11.2		12.4	10.9	8.5	16.9	9.1	13.3	11.6	9.1
SW	.9	8.0	6.1	1.4	.2	.0		16.6	11.7		15.8	15.6	19.0	13.8	16.8	19.4	13.6	19.4
W	1.6	10.3	13.7	3.6	.7	.2		30.1	14.0		34.6	29.0	29.4	22.5	26.6	24.7	34.9	31.6
NW	.7	4.5	6.5	1.8	.3	*		13.8	13.9		13.5	13.9	8.0	15.6	12.9	19.1	14.3	19.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9							2.9	.0		3.4	2.0	5.8	.0	3.1	3.2	1.8	1.0
TOT OBS	102	470	471	137	19	3	1202		12.6		262	101	171	80	229	94	166	99
TOT PCT	8.5	39.1	39.7	11.4	1.6	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	1.1	2.8	.6	.1	*			4.8	11.7		4.5	6.3	4.3	4.2	
NE	1.4	2.3	2.0	.6	.0			6.4	14.8		3.7	8.8	8.6	5.1	
E	1.8	3.7	1.8	.4	.1			7.7	12.9		6.2	8.0	9.1	7.9	
SE	2.3	2.7	1.4	.2	.0			6.7	11.3		8.1	6.9	6.2	5.1	
S	3.0	6.1	1.7	.2	.1			11.1	11.2		12.0	11.2	10.3	10.7	
SW	4.3	8.6	3.0	.5	.1			16.6	11.7		15.8	17.3	17.6	15.8	
W	5.4	14.5	8.3	1.6	.3			30.1	14.0		33.1	27.2	26.1	33.7	
NW	2.7	6.1	4.2	.7	.1			13.8	13.9		13.6	10.5	14.7	16.1	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	2.9							2.9	.0		3.0	4.0	3.1	1.5	
TOT OBS	301	565	276	92	8	1202			12.6		363	251	323	265	
TOT PCT	25.0	47.0	23.0	4.3	.7			100.0			100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.0	5.8	35.8	44.1	9.6	1.7	.0	12.4	100.0	363
06009	4.0	4.0	50.6	34.3	5.6	1.2	.4	11.1	100.0	251
12015	3.1	5.3	37.5	38.1	14.9	.9	.3	12.8	100.0	323
18021	1.9	7.2	34.7	38.5	15.1	2.6	.4	13.9	100.0	265
TOT	35	67	470	471	137	19	3	12.6		1202
PCT	2.9	5.6	39.1	39.2	11.4	1.6	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.9	.4	.8	1.2		4.2
NE	1.4	.7	2.2	4.1		6.1
E	2.1	.4	2.5	5.5		6.0
SE	1.4	.6	.8	2.6		5.3
S	2.5	.3	2.3	4.4		5.6
SW	6.2	1.7	2.8	2.7		3.8
W	17.8	6.7	5.7	4.1		3.0
NW	3.8	1.8	3.0	2.0		4.1
VAR	.0	.0	.0	.0		.0
CALM	2.0	.6	.6	.9		3.3
TOT OBS	212	69	112	150	543	4.2
TOT PCT	39.0	12.7	20.6	27.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.0	.0	.5	.6	.2	.4	.0	.0	.0	2.3	
NE	.3	.0	.6	.2	2.3	.9	.4	.2	.4	.0	2.6	
E	.7	.3	.5	.8	.9	1.9	.4	.6	.2	.2	4.0	
SE	.2	.2	.0	.3	.6	.6	.6	.2	.0	.4	2.3	
S	.6	.0	.2	1.5	1.0	.3	.6	.3	.0	.7	4.3	
SW	.4	.0	.4	.3	1.1	.6	.1	.0	.0	.9	9.6	
W	.4	.4	.0	.3	2.0	1.6	1.4	.2	.2	1.1	26.9	
NW	.0	.0	.2	.1	1.5	1.3	1.0	.1	.0	.4	6.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.2	.2	.4	.0	.2	.0	.0	2.9	
TOT OBS	17	5	10	23	55	42	26	10	4	18	333	
TOT PCT	3.1	.9	1.8	4.2	10.1	7.7	4.8	1.8	.7	3.3	61.3	543 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >90VD	= OR >0
= OR >6500	2.5	3.8	3.9	3.9	3.9	3.9	3.9	3.9
= OR >5000	3.9	5.3	5.7	5.7	5.7	5.7	5.7	5.7
= OR >3500	7.3	9.8	10.2	10.2	10.2	10.4	10.4	10.4
= OR >2000	12.7	16.6	17.5	17.7	17.7	17.9	18.2	18.2
= OR >1000	18.4	26.1	27.7	28.0	28.0	28.4	28.8	28.8
= OR >600	20.5	28.9	31.1	32.0	32.1	32.5	32.9	32.9
= OR >300	21.1	29.5	32.3	33.6	33.8	34.3	34.6	34.6
= OR >150	21.3	29.8	32.9	34.1	34.6	35.2	35.5	35.5
= OR >0	21.6	30.4	33.6	35.2	35.9	36.8	38.6	39.1
TOTAL	121	170	188	197	201	206	216	219

TOTAL NUMBER OF OBS: 560

PCT FREQ NH <5/8: 60.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	27.3	12.4	10.4	5.5	3.1	3.4	4.6	6.5	24.2	2.6	615

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	.3	.3	.5	.7	.6	.2	.0	.0	.1	2.9	
	TOT %	.1	.3	.4	.5	.8	.6	.2	.0	.0	.1	3.1	
1/2<1	PCP	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.1	.2	.4	.3	.4	1.0	.3	.0	.0	2.6	
	TOT %	.0	.2	.2	.4	.4	.4	1.0	.3	.0	.0	3.1	
1<2	PCP	.1	.1	.2	.1	.2	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.1	.1	.0	.0	.4	.1	.0	.0	.0	.7	
	TOT %	.1	.2	.3	.1	.2	.4	.1	.0	.0	.0	1.3	
2<5	PCP	.1	.2	.5	.1	.3	.7	.2	.2	.0	.1	1.9	
	NO PCP	.2	.1	.2	.3	.6	.4	.0	.1	.0	.1	2.0	
	TOT %	.2	.3	.7	.4	.9	.7	.2	.3	.0	.2	3.9	
5<10	PCP	.1	.4	.9	.7	.7	1.3	.7	.4	.0	.0	5.2	
	NO PCP	1.6	1.4	1.4	1.6	3.7	5.2	7.9	5.3	.0	.4	28.7	
	TOT %	1.7	1.8	2.3	2.4	4.4	6.6	8.6	5.7	.0	.4	33.9	
10+	PCP	.2	.3	.2	.2	.4	.1	.2	.1	.0	.0	1.7	
	NO PCP	2.5	3.6	3.9	2.3	3.9	7.2	20.0	7.5	.0	2.2	53.1	
	TOT %	2.7	3.9	4.2	2.5	4.3	7.3	20.2	7.5	.0	2.2	54.8	
TOT OBS													1114
TOT PCT		4.8	6.7	8.1	6.4	11.0	16.0	30.3	13.8	.0	2.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.1	.1	.1	.1	.2	.0	.0	.1	.5	
	4-10	.1	.1	.1	.3	.6	.3	.1	.1	.0	.0	1.6	
	11-21	.0	.1	.2	.1	.0	.3	.1	.0	.0	.0	.8	
	22+	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.3	.4	.5	.8	.6	.3	.1	.0	.1	3.1	
1/2<1	0-3	.0	.0	.0	.1	.0	.1	.3	.1	.0	.0	.6	
	4-10	.0	.0	.0	.2	.2	.2	.3	.2	.0	.0	1.1	
	11-21	.0	.1	.2	.1	.1	.1	.4	.1	.0	.0	.8	
	22+	.0	.2	.1	.1	.2	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.2	.2	.4	.4	.4	1.0	.3	.0	.0	3.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.0	.1	.4	.1	.0	.0	.0	.6	
	11-21	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.3	
	22+	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.1	.2	.3	.2	.2	.4	.1	.0	.0	.0	1.3	
2<5	0-3	.0	.0	.0	.1	.1	.0	.0	.1	.0	.3	.5	
	4-10	.1	.0	.2	.1	.4	.3	.1	.0	.0	.0	1.1	
	11-21	.2	.1	.5	.2	.3	.3	.1	.1	.0	.0	1.7	
	22+	.0	.2	.1	.0	.1	.2	.0	.1	.0	.0	.6	
	TOT %	.2	.3	.7	.4	.9	.8	.2	.3	.0	.3	4.0	
5<10	0-3	.1	.1	.1	.1	.2	.4	.5	.3	.0	.4	2.1	
	4-10	.5	.6	1.0	1.2	2.1	2.1	2.6	1.4	.0	.0	11.5	
	11-21	1.0	.2	.9	1.0	1.8	3.0	3.4	2.7	.0	.0	14.1	
	22+	.1	.9	.3	.3	.2	1.0	1.9	1.2	.0	.0	5.8	
	TOT %	1.7	1.8	2.3	2.4	4.4	6.5	8.5	5.6	.0	.4	33.5	
10+	0-3	.3	.3	.3	.1	.5	.3	.6	.3	.0	2.1	4.7	
	4-10	.9	1.8	2.1	1.7	1.7	4.2	6.9	2.8	.0	.0	22.0	
	11-21	1.3	1.0	1.4	.6	1.9	2.5	10.1	3.6	.0	.0	22.4	
	22+	.2	.8	.5	.3	.3	.4	2.6	.9	.0	.0	6.0	
	TOT %	2.7	3.9	4.2	2.7	4.3	7.4	20.2	7.5	.0	2.1	55.1	
TOT OBS													1131
TOT PCT		4.8	6.6	8.1	6.6	11.0	16.0	30.2	13.7	.0	2.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	3.9	.7	.7	2.6	7.8	5.9	4.6	2.6	.7	2.6	32.0	68.0	153
06009	4.4	1.5	.0	5.8	7.3	7.3	5.1	.0	.0	3.6	35.0	65.0	137
12015	3.6	.7	2.9	2.1	15.0	10.7	4.3	3.6	.0	3.6	46.4	53.6	140
18021	2.0	.7	3.3	5.3	10.1	6.7	4.0	.7	2.0	2.7	38.0	62.0	140
TOT	20	5	10	23	59	44	26	10	4	18	219	361	580
PCT	3.4	.9	1.7	4.0	10.2	7.6	4.5	1.7	.7	3.1	37.8	62.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.2	2.8	.8	1.7	37.6	54.8	356
06009	3.3	2.9	.8	4.5	25.7	62.9	245
12015	4.7	5.1	1.9	3.2	40.8	44.9	316
18021	3.0	3.0	2.2	7.1	28.3	56.5	269
TOT	39	41	15	46	402	643	1186
PCT	3.3	3.5	1.3	3.9	33.9	54.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	4.2	6.9	11.1	25.0	63.9	144
06009	4.5	6.8	15.8	21.8	62.4	133
12015	3.6	8.0	13.8	35.5	50.7	138
18021	2.1	9.0	20.7	22.1	57.2	145
TOT	20	43	86	146	328	560
PCT	3.6	7.7	13.4	26.1	58.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
60/64	.0	.1	.1	.3	.4	1.4	.9	1.0	30	4.3
55/59	.0	.0	.0	.3	1.4	4.7	8.2	9.3	167	24.0
50/54	.0	.0	.1	1.0	3.0	6.9	12.1	15.4	268	38.5
45/49	.0	.0	.0	1.4	2.0	5.5	7.3	8.0	169	24.3
40/44	.0	.0	.0	.6	.6	1.9	2.7	2.2	95	7.9
35/39	.0	.0	.0	.0	.0	.1	.6	.1	6	.9
TOTAL	0	1	2	25	53	143	221	251	696	100.0
PCT	.0	.1	.3	3.6	7.6	20.5	31.8	36.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
.0	.1	.4	.8	.9	.6	1.7	.3	.0	.3
.8	1.5	2.3	1.8	4.3	4.0	6.6	1.5	.0	1.1
1.3	2.0	3.4	2.6	5.6	6.4	11.9	4.1	.0	1.1
1.7	2.5	2.0	.9	1.5	2.3	9.2	3.8	.0	.4
.3	.6	1.0	.2	.1	.5	2.9	1.9	.0	.4
.1	.1	.0	.0	.0	.0	.3	.4	.0	.0
4.2	6.7	9.0	5.6	12.4	13.9	32.7	12.0	.0	3.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	65	62	58	52	43	40	39	51.3	373
06009	64	61	59	51	42	39	37	50.9	256
12015	67	64	61	52	43	40	37	51.9	339
18021	73	64	60	54	44	42	40	53.2	274
TOT	73	63	60	52	43	40	37	51.8	1242

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.2	7.0	19.6	33.2	36.0	84	214
06009	.0	1.9	4.5	19.4	29.0	45.2	86	135
12015	.0	2.7	7.0	18.9	32.4	38.9	85	185
18021	.0	6.5	10.6	24.7	31.2	27.1	81	170
TOT	0	28	53	149	229	265	84	724

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TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	43 48	49 52	53 56	57 60	61 64	63 68	69 72	TOT	N FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.1	.2	.0	.1	4	.0	.4
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.1	.1
11/13	.0	.0	.0	.1	.2	.1	.3	.2	.0	9	.3	.8
9/10	.0	.0	.3	.2	.5	.9	.4	.0	.0	17	.2	1.3
7/8	.0	.0	.4	.5	1.1	1.7	.7	.1	.0	40	.5	3.4
6	.0	.0	.5	.7	1.1	.9	.0	.0	.0	32	.3	2.9
5	.0	.0	.7	1.3	1.3	1.4	.4	.0	.0	55	.2	5.2
4	.0	.3	.7	1.7	3.0	2.5	.5	.0	.0	87	1.1	7.5
3	.0	.8	.8	1.8	2.9	1.9	.2	.0	.0	84	1.5	6.8
2	.0	.5	1.4	2.5	4.6	1.9	.1	.0	.0	111	.6	10.3
1	.1	.5	1.3	4.3	4.6	1.6	.0	.0	.0	126	1.5	10.9
0	.2	.9	2.0	5.0	3.3	1.2	.1	.0	.0	129	.9	11.8
-1	.5	.8	1.8	3.5	3.0	.3	.0	.0	.0	100	.4	9.4
-2	.2	.6	2.3	2.1	1.5	.1	.0	.0	.0	68	.0	6.7
-3	.1	.5	2.0	2.6	.7	.1	.0	.0	.0	60	.0	5.9
-4	.1	.6	1.4	1.6	.2	.0	.0	.0	.0	39	.3	3.5
-5	.1	.4	.6	.6	.1	.0	.0	.0	.0	18	.0	1.8
-6	.1	.3	.6	.3	.1	.0	.0	.0	.0	14	.0	1.4
-7/-8	.2	.5	.6	.1	.0	.0	.0	.0	.0	14	.0	1.4
-9/-10	.1	.1	.1	.1	.0	.0	.0	.0	.0	4	.0	.4
-11/-13	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	17	69	176	293	141	90	3	2	1016	79	937	
PCT	1.7	6.8	17.3	28.8	28.1	13.9	3.0	.3	.2	100.0	7.8	92.2

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.6	.3	.0	.0	.0	1.2	.0	.6	.1	.0	.0	.0	.7
1-2	.0	.0	1.0	.0	.0	.0	1.0	.0	1.0	.8	.0	.0	.0	2.2
3-4	.0	.6	.3	.0	.0	.0	.9	.0	.3	.8	.4	.0	.0	1.5
5-6	.0	.0	1.2	.3	.0	.0	1.5	.0	.3	.4	.3	.0	.0	1.1
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	1.4	.0	.0	1.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.0	.0	.0	1.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.2	3.1	.3	.0	.0	4.9	.3	2.3	2.5	4.3	.0	.0	9.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.1	.6	.0	.0	.0	2.7	.3	.5	.0	.0	.0	.0	.8
1-2	.0	.6	1.3	.0	.0	.0	1.8	.0	1.3	.3	.0	.0	.0	1.7
3-4	.0	1.9	1.8	.3	.0	.0	4.0	.0	.2	.5	.0	.0	.0	.7
5-6	.0	.0	.6	.7	.0	.0	1.3	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	.3	.5	.0	.0	.8	.0	.0	.1	.8	.0	.0	.8
8-9	.0	.0	.0	.3	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.6	4.5	1.7	.3	.0	11.1	.3	2.0	1.7	.8	.0	.0	4.8

PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER

AREA 0007 ANTICOSTI ISLAND
49.5N 62.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.6	.0	.0	.0	.0	.6	.4	2.8	.0	.0	.0	.0	3.3
1-2	.0	4.0	.6	.0	.0	.0	4.6	.0	2.6	1.6	.0	.0	.0	4.2
3-4	.0	.6	1.4	.0	.0	.0	2.0	.7	2.8	2.3	.0	.0	.0	5.6
5-6	.0	.0	1.8	.0	.0	.0	1.8	.0	.4	.9	.0	.0	.0	1.3
7	.0	.0	.3	.0	.3	.0	.6	.0	.0	.4	.7	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	4.1	.0	.3	.0	9.6	1.1	8.7	5.6	1.0	.4	.0	16.8

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	4.1	.3	.0	.0	.0	5.0	.0	1.4	.1	.0	.0	.0	1.5	
1-2	.3	4.1	2.5	.0	.0	.0	6.9	.7	2.8	.9	.0	.0	.0	4.3	
3-4	.0	4.8	5.4	.0	.0	.0	10.2	.0	.3	.4	.0	.0	.0	.9	
5-6	.0	.9	4.1	.7	.0	.0	5.7	.0	.3	.9	.0	.0	.0	1.3	
7	.0	.0	.9	.6	.3	.0	1.8	.0	.0	.0	.4	.0	.0	.4	
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.3	.3	.0	.6	.0	.0	.0	.0	.1	.0	.1	
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	13.8	13.3	1.9	.8	.0	30.8	.7	5.0	2.7	.4	.1	.0	8.8	96.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.8	12.6	1.3	.0	.0	.0	21.7	
1-2	1.3	15.9	8.7	.0	.0	.0	25.9	
3-4	1.0	11.3	12.6	.6	.0	.0	25.6	
5-6	.0	1.9	10.4	1.9	.0	.0	14.2	
7	.0	.0	2.3	4.2	.6	.0	7.1	
8-9	.0	.0	.6	1.3	.3	.0	2.3	
10-11	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.3	1.3	.3	.0	1.9	
13-16	.0	.0	.0	.3	.3	.0	.6	
17-19	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.0	41.7	36.2	10.0	1.9	.0	100.0	309

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.7	19.3	20.3	8.7	2.8	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	246	3
6-7	.2	.7	3.1	4.0	2.8	.7	.9	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	6
8-9	.0	.7	1.4	.5	.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
10-11	.0	.2	.5	.0	.0	.7	.5	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
INDET	10.6	4.2	3.8	.7	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	2
TOTAL	70	107	123	39	30	16	8	7	3	1	0	0	0	0	0	0	0	0	0	424	3
PCT	16.5	25.2	29.0	13.9	7.1	3.8	1.9	1.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1923-1970
(OVER-ALL) 1874-1970

OCTOBER

AREA 0007 ANTICOSTI ISLAND
49.5N 62.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	7.8	3.8	.7	.0	7.1	.0	.9	18.7	1.4	1.9	3.3	.0	.0	.0	74.7
NE	19.6	.0	11.0	.0	4.1	.0	.9	35.6	.5	.0	.9	.0	.0	.0	63.0
E	17.6	5.0	7.3	.0	2.8	.0	.5	31.2	2.8	.0	9.8	.0	.0	.0	56.2
SE	22.9	2.4	5.0	.0	.0	.0	.0	30.3	5.0	.0	6.5	1.2	1.5	.0	55.6
S	12.0	2.3	3.8	.0	.0	.0	.0	17.0	.0	.0	7.0	.9	3.2	.0	71.9
SW	7.7	.8	5.3	.0	.4	.0	.0	13.4	2.6	.4	4.7	.2	2.4	.0	76.3
W	3.0	.7	.8	.0	.3	.0	.0	4.9	.9	.5	1.9	.3	.0	.3	91.1
NW	2.1	2.4	1.2	.0	1.9	.0	.0	7.1	1.1	.5	3.7	.0	.0	.0	87.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	3.6	.0	77.8
TOT PCT	8.3	2.0	3.1	.0	1.7	.0	.2	14.5	1.6	.5	4.4	.3	.7	.1	77.9
TOT OBS:	1073														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	10.3	3.1	2.8	.0	1.9	.0	.3	17.8	2.2	.9	4.0	.3	.9	.3	73.5
06009	9.1	2.1	2.5	.0	1.6	.0	.0	14.4	1.2	.8	3.7	.0	.8	.0	79.0
12015	6.9	.9	3.8	.0	2.2	.0	.3	13.4	1.3	.0	4.7	.0	.6	.0	80.0
18021	6.5	2.4	4.1	.0	1.2	.0	.0	13.5	1.2	.0	4.9	.8	.4	.0	79.2
TOT PCT	8.2	2.1	3.3	.0	1.8	.0	.2	14.9	1.5	.4	4.3	.3	.7	.1	77.8
TOT OBS:	1129														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	3.6	1.9	1.5	.3	.0		9.7	14.1		7.7	15.0	11.7	13.5	12.5	8.6	3.3	7.7
NE	.2	1.9	2.5	.9	.3	.0		5.8	15.3		4.0	3.8	2.0	6.8	8.1	10.6	5.3	7.7
E	.5	2.7	3.3	2.1	.4	.0		9.0	15.7		10.8	1.3	8.8	6.0	9.2	12.1	9.6	9.5
SE	.3	2.3	1.2	1.4	.2	.0		7.4	15.1		9.8	10.6	8.6	6.0	8.0	1.0	6.4	3.6
S	.4	3.0	3.8	1.0	.1	.0		8.4	15.3		6.5	9.7	8.9	6.3	6.1	13.4	10.5	11.9
SW	.5	5.1	3.7	2.1	.1	.0		11.5	15.6		8.9	12.8	13.4	10.7	13.1	11.4	13.2	7.7
W	1.0	7.2	11.4	5.5	2.0	.1		27.2	17.0		31.8	22.2	25.5	22.9	21.9	26.8	33.1	31.5
NW	.7	5.0	9.0	5.6	1.0	.0		19.3	16.2		18.1	23.4	18.6	25.8	19.9	16.2	16.9	19.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0		2.4	1.3	2.5	2.1	1.2	.0	1.8	1.2
TOT OBS	88	369	488	218	54	1	1198		15.2		255	80	160	96	255	99	189	84
TOT PCT	5.7	30.8	40.7	18.2	4.5	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				4+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	1.6	4.6	2.9	.6	.0		9.7	14.1	9.5	12.4	11.4	4.7
NE	.8	2.8	1.5	.6	.1		5.8	15.3	4.0	3.8	8.8	6.1
E	1.7	3.5	2.7	1.2	.0		9.0	15.7	8.5	7.7	10.0	9.6
SE	1.1	3.4	2.1	.7	*		7.4	15.1	10.0	7.6	6.1	5.4
S	1.6	4.4	2.0	.3	*		8.4	15.3	7.2	7.9	8.1	11.0
SW	2.4	5.5	2.7	.9	*		11.5	15.6	9.9	12.4	12.6	11.4
W	3.3	10.8	8.9	3.6	.6		27.2	17.0	29.5	24.5	23.2	32.6
NW	2.4	8.1	6.8	1.7	.3		19.3	16.2	19.4	21.3	18.9	17.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	2.1	2.3	.8	1.6
TOT OBS	199	516	354	116	13	1198		15.2	335	256	354	293
TOT PCT	16.6	43.1	29.5	9.7	1.1		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.1	5.1	31.0	39.7	17.0	5.1	.0	15.0	100.0	335
04009	2.3	3.1	34.0	41.4	16.4	2.7	.0	14.4	100.0	256
12615	.8	4.2	31.1	43.3	15.8	4.2	.3	14.7	100.0	334
18621	1.6	3.2	26.9	37.5	24.9	5.9	.0	17.1	100.0	253
TOT	20	48	369	488	218	54	1	15.2		1198
PCT	1.7	4.0	30.8	40.7	18.2	4.5	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL DBSD	MEAN CLOUD COVER
N	3.8	.6	1.6	2.0		3.9
NE	.3	.5	.9	2.1		6.6
E	1.3	.6	.8	5.8		6.4
SE	.4	1.0	1.1	4.9		6.7
S	1.2	.6	2.2	4.4		6.1
SW	4.0	.8	2.8	6.1		5.2
W	12.4	5.9	6.9	6.2		3.9
NW	8.8	2.3	3.9	2.3		3.4
VAR	.0	.0	.0	.0		.0
CALM	.5	.3	.0	.9		4.9
TOT DBS	191	74	118	204	587	4.7
TOT PCT	32.5	12.6	20.1	34.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL DBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.2	.6	.2	.3	.3	.7	.1	.1	.5	.4	5.2	
NE	.0	.0	.0	.5	1.7	.4	.2	.1	.0	.1	.8	
E	.3	.0	.3	.6	1.9	1.4	.5	.0	.2	.6	2.4	
SE	.5	.2	.0	1.1	1.9	1.0	.6	.0	.0	.2	1.9	
S	.6	.1	.2	.6	1.7	1.4	.3	.1	.0	.8	2.4	
SW	.2	.7	.2	2.5	1.8	1.8	.4	.1	.0	.2	6.4	
W	.2	.0	.3	1.7	3.1	1.7	1.9	.3	.3	.9	20.7	
NW	.2	.0	.0	.5	2.2	1.2	.4	.2	.2	.4	12.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.0	
TOT DBS	17	3	7	47	86	57	26	5	7	21	311	587
TOT PCT	2.9	.5	1.2	8.0	14.7	9.7	4.4	.9	1.2	3.6	53.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	3.9	4.3	4.8	4.8	4.8	4.8	4.8	4.8
= OR >5000	4.8	5.1	5.6	5.6	5.6	5.6	5.6	5.6
= OR >3500	8.4	9.2	9.9	9.9	9.9	9.9	9.9	9.9
= OR >2000	14.3	17.7	18.7	19.0	19.4	19.4	19.4	19.5
= OR >1000	23.0	29.2	32.7	33.3	34.0	34.0	34.0	34.2
= OR >600	27.3	36.1	40.7	41.9	42.5	42.5	42.5	42.7
= OR >300	27.9	36.9	41.9	43.0	43.7	43.7	43.7	43.8
= OR >150	28.1	37.3	42.4	43.5	44.2	44.2	44.2	44.3
= OR >0	28.2	37.6	43.2	44.8	45.8	46.0	46.8	47.3
TOTAL	172	229	263	273	279	280	285	288

TOTAL NUMBER OF OBS: 609

PCT FREQ NM <5/8: 52.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 DBSD	TOTAL DBS
18.2	11.7	9.3	6.4	4.6	4.0	5.8	7.5	30.3	677

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.0	.1	.1	.0	.0	.0	*	.0	.0	.4	
	NO PCP	.1	.0	.3	.2	.2	.2	.2	*	.0	.3	1.5	
	TOT %	.3	.0	.3	.3	.2	.2	.2	.1	.0	.3	1.9	
1/2<1	PCP	.1	.1	.1	.1	.0	.0	.1	.1	.0	.0	.7	
	NO PCP	.2	*	.4	.3	.1	.1	.2	.5	.0	.0	1.8	
	TOT %	.3	.1	.5	.4	.2	.1	.3	.7	.0	.0	2.5	
1<2	PCP	.1	.1	.6	.3	.1	.0	.1	.2	.0	.0	1.4	
	NO PCP	.0	.0	.1	.1	.1	.2	.1	.1	.0	.0	.7	
	TOT %	.1	.1	.7	.3	.2	.2	.2	.3	.0	.0	2.1	
2<5	PCP	.1	.5	.5	.6	.3	.2	.1	.2	.0	.0	2.7	
	NO PCP	.1	*	.6	.3	.5	.4	.3	.4	.0	.1	2.7	
	TOT %	.2	.5	1.1	.9	.9	.6	.4	.6	.0	.1	5.4	
5<10	PCP	1.1	.8	1.4	1.2	.5	1.1	.8	.4	.0	.0	7.3	
	NO PCP	2.1	1.2	1.7	1.6	2.1	3.0	6.2	4.9	.0	.3	23.2	
	TOT %	3.1	2.1	3.1	2.8	2.6	4.1	7.1	5.3	.0	.3	30.5	
10+	PCP	.3	.3	.2	.1	.4	.2	.3	.4	.0	.0	2.1	
	NO PCP	5.5	2.0	3.3	3.1	3.6	6.1	19.2	11.8	.0	1.0	55.5	
	TOT %	5.8	2.2	3.5	3.2	3.9	6.3	19.5	12.2	.0	1.0	57.7	
TOT OBS													1073
TOT PCT		9.9	9.1	9.2	7.9	8.0	11.4	27.7	19.1	.0	1.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	
	4-10	*	.0	.1	.2	*	.1	*	.0	.0	.0	.6	
	11-21	.1	.0	.1	.1	.2	*	.0	.0	.0	.0	.4	
	22+	.1	.0	.2	*	.0	.0	.1	*	.0	.0	.4	
	TOT %	.3	.0	.3	.3	.2	.2	.2	.1	.0	.3	1.8	
1/2<1	0-3	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.3	
	4-10	.1	*	.4	.1	.1	.0	.0	.3	.0	.0	1.0	
	11-21	.1	.0	.1	.1	.2	.0	.3	.1	.0	.0	.9	
	22+	*	.1	.0	.1	.0	.0	.0	.1	.0	.0	.4	
	TOT %	.3	.1	.4	.4	.3	.1	.3	.6	.0	.0	2.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	*	.1	.1	.1	.1	.0	.0	.4	
	11-21	.0	*	.1	.0	.0	.1	.1	.1	.0	.0	.4	
	22+	.1	.1	.6	.3	.2	.0	.0	.1	.0	.0	1.3	
	TOT %	.1	.1	.6	.3	.2	.2	.2	.3	.0	.0	2.0	
2<5	0-3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.3	
	4-10	.0	.2	.2	.1	.1	.2	*	.3	.0	.0	1.1	
	11-21	.2	.3	.2	.4	.6	.3	.2	.2	.0	.0	2.4	
	22+	.0	.0	.7	.3	.3	.1	.1	.1	.0	.0	1.6	
	TOT %	.2	.5	1.1	.9	.9	.6	.4	.6	.0	.1	5.3	
5<10	0-3	.0	*	.1	.1	.3	.1	.4	.4	.0	.3	1.8	
	4-10	.6	.5	.7	.7	1.0	1.2	1.4	1.0	.0	.0	7.1	
	11-21	1.5	1.2	1.6	1.3	1.2	1.4	3.2	1.8	.0	.0	13.1	
	22+	.9	.4	.7	.6	.1	1.2	1.8	1.8	.0	.0	7.5	
	TOT %	3.0	2.1	3.1	2.7	2.6	3.9	6.8	5.0	.0	.3	29.5	
10+	0-3	.3	.1	.4	*	.2	.1	.7	.3	.0	1.0	3.0	
	4-10	2.9	1.3	1.2	1.3	1.7	3.1	5.5	3.4	.0	.0	20.3	
	11-21	2.0	.7	1.4	1.3	1.7	2.0	7.7	6.7	.0	.0	23.5	
	22+	.7	.6	.6	.5	.6	1.1	5.9	2.2	.0	.0	12.1	
	TOT %	6.0	2.7	3.6	3.1	4.2	6.2	19.7	12.6	.0	1.0	59.0	
TOT OBS													1136
TOT PCT		9.8	9.6	9.1	7.6	8.4	11.2	27.5	19.2	.0	1.6	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	3.1	.0	.0	6.3	14.5	8.8	2.5	.0	1.9	4.4	41.5	58.5	159
06009	2.7	.7	1.4	8.2	10.9	8.2	4.1	.7	.7	4.1	41.5	58.5	147
12015	2.5	.0	1.2	11.0	16.0	9.2	3.7	1.2	.6	2.5	47.9	52.1	163
18021	3.1	1.3	1.9	7.5	15.1	11.3	6.9	1.3	1.3	3.1	52.8	47.2	159
TOT PCT	18 2.9	3 .5	7 1.1	52 8.3	89 14.2	39 9.4	27 4.3	5 .8	7 1.1	22 3.5	289 46.0	339 54.0	628 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.8	1.5	1.5	7.2	32.1	55.9	333
06009	2.3	2.3	1.6	4.3	26.2	63.3	256
12015	1.4	3.1	2.6	2.6	33.1	57.1	350
18021	1.6	2.8	2.4	7.5	25.7	60.1	293
TOT PCT	21 1.8	29 2.4	24 2.0	63 5.3	355 29.8	700 58.7	1192 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	3.3	3.3	14.6	29.1	56.3	151
06009	3.5	5.6	20.1	23.6	56.3	144
12015	2.5	4.4	18.2	31.4	50.3	159
18021	3.2	8.4	23.2	32.3	44.5	155
TOT PCT	19 3.1	33 5.4	116 19.0	178 29.2	315 51.7	609 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
55/59	.0	.0	.0	.3	.0	.3	.3	.4	9	1.3
50/54	.0	.0	.0	.6	1.0	2.4	4.2	3.4	82	11.6
45/49	.0	.0	.0	.7	2.5	5.6	10.4	12.1	255	31.5
40/44	.0	.0	.6	1.1	4.4	9.0	8.3	10.4	240	33.9
35/39	.0	.1	.4	1.4	2.4	3.7	3.2	3.4	104	14.7
30/34	.0	.0	.1	.6	1.1	.4	1.7	1.7	40	5.6
25/29	.0	.0	.0	.3	.0	.1	.3	.6	9	1.3
20/24	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
TOTAL	0	1	8	35	82	154	202	227	709	100.0
PCT	.0	.1	1.1	4.9	11.6	21.7	28.5	32.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	.0	.0	.1	.*	.0	.0	.0	.0
55/59	.0	.1	.0	.1	.2	.2	.4	.1	.0	.0
50/54	.4	.6	.7	.9	1.3	2.4	3.2	1.9	.0	.1
45/49	2.3	1.2	2.8	3.1	3.5	4.2	9.3	4.2	.0	1.0
40/44	3.8	1.2	2.9	2.3	2.2	3.8	11.7	5.9	.0	.1
35/39	2.5	1.1	1.4	.3	.7	.5	3.1	4.9	.0	.3
30/34	1.1	.4	.2	.0	.0	.1	1.1	2.7	.0	.0
25/29	.4	.0	.0	.0	.0	.0	.4	.5	.0	.0
20/24	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
TOTAL	10.5	4.6	7.9	6.8	8.1	11.2	29.1	20.3	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	58	54	51	44	35	29	27	43.7	349
06009	56	54	52	42	33	28	23	42.4	266
12015	62	55	52	44	33	26	23	43.1	366
18021	65	57	54	46	35	32	30	45.4	261
TOT	65	55	52	44	34	28	23	43.6	1242

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.2	9.9	18.3	28.2	39.4	83	213		213
06009	.0	4.9	13.4	20.1	26.2	35.4	82	164		164
12015	.0	5.1	10.7	23.5	32.1	28.6	82	196		196
18021	.0	10.3	12.3	24.6	26.3	26.3	79	171		171
TOT	0	45	85	140	211	243	82	744		744

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	2	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	3	.1	.2
9/10	.0	.0	.0	.0	.0	.0	.4	.7	.3	.0	14	.2	1.2
7/8	.0	.0	.0	.0	.0	.0	.5	.9	.7	.1	22	.0	2.3
6	.0	.0	.0	.0	.0	.2	.2	.7	.1	.0	12	.2	1.0
5	.0	.0	.0	.0	.0	.3	1.1	.9	.2	.0	25	.3	2.3
4	.0	.0	.0	.0	.1	.2	2.8	1.9	.4	.1	53	.3	5.2
3	.0	.0	.0	.0	.6	1.8	3.5	1.7	.5	.0	78	.3	7.8
2	.0	.0	.0	.0	.3	1.8	3.8	2.0	.3	.0	79	.4	7.8
1	.0	.0	.0	.0	1.3	2.8	3.9	1.5	.4	.0	96	.5	9.4
0	.0	.0	.0	.1	1.3	3.6	4.6	1.8	.1	.0	130	.4	13.1
-1	.0	.0	.0	.1	1.5	4.0	2.5	.6	.2	.0	86	.6	8.3
-2	.0	.0	.0	.3	2.4	2.8	2.2	.4	.1	.0	79	.5	7.7
-3	.0	.0	.1	.5	2.5	2.9	1.1	.6	.0	.0	75	.2	7.6
-4	.0	.0	.1	1.3	1.7	1.5	.7	.2	.0	.0	53	.2	5.3
-5	.0	.0	.1	1.2	1.9	1.6	.6	.0	.0	.0	52	.0	5.4
-6	.0	.0	.0	.3	.9	.4	.3	.0	.0	.0	19	.0	2.0
-7/-8	.0	.1	.8	2.1	1.9	.2	.2	.0	.0	.0	49	.0	5.1
-9/-10	.0	.0	.7	.7	.2	.2	.0	.0	.0	.0	18	.0	1.9
-11/-13	.0	.2	.6	.4	.0	.1	.0	.0	.0	.0	13	.0	1.3
-14/-16	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	4	.0	.4
-17/-19	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	9	5	22	70	160	254	136	33	3	964	42	922	
PCT	.9	.5	2.3	7.3	16.6	26.3	14.1	3.6	.3	100.0	4.4	95.6	

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGF	N					PCT	NE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
<1	.3	.4	.0	.0	.0	.6	.4	.4	.0	.0	.0	.8
1-2	.0	1.1	.6	.0	.0	1.7	.0	.4	.4	.0	.0	.7
3-4	.0	1.8	1.8	.0	.0	3.3	.0	.4	1.3	.0	.0	1.8
5-6	.0	.0	.3	.4	.3	.9	.0	.0	.4	.7	.0	1.1
7	.0	.0	.0	.4	.0	.4	.0	.0	.1	.2	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.0	2.6	.7	.3	6.9	.4	1.1	2.1	2.0	.0	5.7

MGF	E					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
<1	.4	1.4	.3	.0	.0	2.0	.0	.8	.1	.0	.0	.9
1-2	.0	1.6	1.2	.0	.0	2.8	.0	1.3	.5	.0	.0	1.8
3-4	.0	.0	1.2	.0	.0	1.2	.0	.1	2.1	1.1	.0	3.3
5-6	.0	.0	.7	.4	.0	1.1	.0	.4	.8	.7	.0	1.8
7	.0	.0	.6	1.2	.0	1.8	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	1.0	1.2	.0	.0	.0	.4	.1	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.0	4.0	2.5	1.0	10.8	.0	2.6	3.9	2.2	.1	8.7

PERIOD: (OVER-ALL) 1963-1970

OCTOBER

AREA 0007 ANTICRSTI ISLAND
49.5N 62.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.3	.4	.0	.0	.0	2.0	.4	.9	.7	.0	.0	.0	1.6
1-2	.0	.9	.6	.0	.0	.0	1.5	.0	.9	1.1	.0	.0	.0	2.0
3-4	.0	.3	1.4	.5	.0	.0	2.2	.0	1.7	1.2	.5	.0	.0	3.4
5-6	.0	.0	1.9	.4	.0	.0	2.3	.0	.0	1.0	.7	.0	.0	1.7
7	.0	.0	.7	.4	.0	.0	1.1	.0	.4	.4	1.8	.1	.0	2.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.5	5.0	1.2	.0	.0	9.1	.4	3.4	4.4	4.5	.3	.0	12.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.6	.7	.0	.0	.0	2.3	.4	1.1	.0	.0	.0	.0	1.4	
1-2	.0	1.7	1.1	.0	.0	.0	2.7	.0	1.1	1.1	.0	.0	.0	2.2	
3-4	.0	2.9	5.7	1.1	.0	.0	9.7	.0	1.5	2.5	.4	.0	.0	4.3	
5-6	.0	.0	2.9	2.1	.0	.0	5.0	.0	.0	2.3	1.1	.1	.0	3.4	
7	.0	.0	.7	1.4	1.7	.0	3.8	.0	.0	.7	1.1	.0	.0	1.8	
8-9	.0	.0	.7	2.0	.4	.0	3.1	.0	.0	.0	.4	.0	.0	.4	
10-11	.0	.0	.0	1.0	.4	.0	1.3	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.4	1.1	.0	1.4	.0	.0	.0	.0	.2	.0	.2	
13-16	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	6.2	11.8	7.9	3.8	.4	30.0	.4	3.6	6.6	2.9	.3	.0	13.7	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.5	7.2	2.1	.0	.0	.0	15.8	
1-2	.0	8.6	6.5	.0	.0	.0	15.1	
3-4	.0	8.2	16.8	3.4	.0	.0	28.5	
5-6	.0	.3	10.0	6.2	.3	.0	16.8	
7	.0	.3	3.4	6.2	1.7	.0	11.7	
8-9	.0	.0	.7	5.2	.3	.0	6.2	
10-11	.0	.0	.0	2.1	1.4	.0	3.4	
12	.0	.0	.0	.3	1.4	.0	1.7	
13-16	.0	.0	.0	.0	.3	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.3	.3	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	24.7	39.5	23.4	5.5	.3	100.0	291

PERIOD: (OVER-ALL) 1950-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.2	12.9	19.2	10.9	2.3	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	229	3
6-7	.5	1.4	3.9	4.4	5.3	4.4	2.3	.7	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	6
8-9	.0	.2	.0	1.2	2.8	.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	7
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
12-13	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	11
>13	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
TOTDET	6.5	2.1	2.3	1.6	1.2	.5	.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	3
TOTAL	57	72	110	80	53	29	18	10	3	1	0	0	0	0	0	0	0	0	0	433	4
PCT	13.2	16.6	25.4	18.5	12.2	6.7	4.2	2.3	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1928-1970
(OVER-ALL) 1875-1970

NOVEMBER

AREA 0007 ANTICOSTI ISLAND
49.5N 62.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	6.0	1.4	3.9	.0	11.6	1.1	.0	20.7	1.1	.0	.0	.0	.0	.0	78.2
NE	11.9	3.2	5.5	.0	12.6	.4	4.0	29.2	4.0	.0	3.6	1.6	1.6	.0	60.1
E	20.9	1.9	5.3	.0	9.7	.0	1.9	39.8	2.9	.0	9.2	.0	5.8	.0	42.2
SE	14.4	.0	6.9	.0	8.8	1.9	.9	31.0	3.7	.0	12.0	1.9	1.9	.0	49.5
S	9.8	5.2	8.2	.0	1.6	.0	.0	24.8	1.3	.0	17.0	1.3	1.0	.0	54.6
SW	6.8	4.2	5.2	.0	1.6	.0	.0	17.8	.5	.0	5.2	.0	2.6	.0	73.8
W	.0	.4	1.1	.0	8.2	.7	.0	10.4	4.1	.0	.7	.0	.7	.7	83.3
NW	1.6	.4	.8	.0	7.1	.0	.0	9.5	3.6	.0	.8	.0	.0	.0	86.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	83.3
TOT PCT	6.8	1.7	3.8	.0	7.6	.5	.6	19.7	2.9	.0	5.1	.5	1.3	.2	70.5
TOT OBS:	631														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST DUST	NO SIG WEA
0000	6.7	.6	2.5	.0	6.7	.0	.6	16.6	1.8	.0	4.3	1.2	1.2	.0		74.8
0600	8.0	2.9	5.8	.0	10.2	1.5	.0	26.3	2.9	.0	5.8	.0	.7	.0		64.2
1200	6.4	3.7	4.3	.0	6.9	.0	1.1	20.7	2.7	.0	7.4	.5	1.1	.0		67.6
1800	6.4	.0	2.6	.0	7.7	.6	.6	16.7	3.8	.0	5.8	.0	1.9	.6		73.1
TOT PCT TOT OBS:	6.8 644	1.9	3.7	.0	7.8	.5	.6	19.9	2.8	.0	5.4	.5	1.2	.2		70.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	3.1	5.4	2.0	.4	.0		11.4	15.9		9.0	19.3	11.0	18.2	10.8	11.2	9.5	13.1
NE	.1	2.3	4.8	2.4	.5	.0		10.1	17.4		7.9	8.0	10.0	11.4	11.5	14.4	9.7	9.5
E	.1	2.2	3.3	1.9	.5	.1		8.1	17.3		8.4	3.4	7.9	4.5	9.7	9.0	8.7	7.1
SE	.3	2.8	3.5	2.1	.2	.8		9.0	16.1		14.1	7.4	7.7	6.8	7.9	9.0	6.8	4.3
S	.0	5.2	4.5	1.7	.1	.0		11.5	13.2		12.4	10.8	14.0	13.6	11.8	6.4	9.3	11.9
SW	.0	2.0	4.7	.7	.3	.0		7.7	14.9		7.2	10.2	8.2	4.5	9.5	8.5	4.3	9.5
W	.2	5.1	9.0	5.1	1.3	.6		21.4	19.1		20.5	21.6	20.8	21.0	19.3	19.7	30.2	26.8
NW	.4	4.6	9.6	3.3	1.6	.5		20.0	18.1		18.3	19.3	19.4	19.9	22.3	21.8	21.5	13.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0		2.1	.0	.9	.0	1.2	.0	.0	.0
TOT OBS	17	195	320	138	36	9	715		16.8		145	44	107	44	165	47	121	42
TOT PCT	2.4	27.3	44.8	19.3	5.0	1.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	1.2	5.0	4.3	.7	.2			11.4	15.9		11.4	13.1	10.8
NE	1.0	3.7	4.3	.9	.1			10.1	17.4		7.9	10.4	12.1
E	1.2	3.3	2.3	1.0	.3			8.1	17.3		7.3	7.0	9.6
SE	1.2	3.5	3.0	1.1	.1			9.0	16.1		12.6	7.5	8.1
S	1.3	7.3	2.5	.4	.0			11.5	13.2		12.0	13.9	10.6
SW	.6	4.3	2.4	.2	.1			7.7	14.9		7.9	7.1	9.3
W	1.5	7.8	7.9	3.5	.8			21.4	19.1		20.8	20.9	16.3
NW	1.7	8.6	6.5	2.1	1.1			20.0	18.1		18.5	19.5	22.2
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0
CALM	.8							.8	.0		1.6	.7	.9
TOT OBS	75	311	237	72	20	715		16.8			189	151	163
TOT PCT	10.5	43.5	33.1	10.1	2.8			100.0			100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.6	2.1	24.3	50.3	17.5	2.1	2.1	16.3	100.0	189
06009	.7	2.6	32.5	39.7	21.9	2.0	.7	15.7	100.0	151
12015	.9	.5	25.9	41.0	22.6	8.5	.5	17.8	100.0	212
18021	.0	1.2	27.6	47.9	14.7	6.7	1.8	17.2	100.0	163
TOT	6	11	195	320	138	36	9	16.8		715
PCT	.8	1.5	27.3	44.8	19.3	5.0	1.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.3	1.0	1.5	3.4		4.6
NE	1.7	.4	1.8	3.1		6.1
E	.2	.0	1.6	3.3		7.4
SE	.3	.3	1.1	6.8		7.3
S	.8	.6	3.6	7.3		6.8
SW	1.7	.4	1.2	3.9		5.8
W	6.0	4.6	6.5	6.9		4.9
NW	5.6	4.6	4.8	6.2		4.6
VAR	.0	.0	.0	.0		.0
CALM	.3	.0	.3	.8		6.2
TOT OBS	72	43	81	165	361	5.6
TOT PCT	19.9	11.9	22.4	45.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.2	.0	.5	1.7	1.2	.3	.3	.3	.0	4.6	
.6	.4	.3	1.3	1.8	1.2	.3	.2	.0	.0	3.0	
.3	.2	.3	.9	1.7	1.1	1.0	.3	.0	.0	1.4	
1.0	.3	.6	1.6	1.7	.6	.3	.3	.3	.5	1.4	
.7	.0	.0	1.7	2.9	1.9	1.7	.1	.0	.7	2.6	
.3	.0	.0	.6	1.5	.8	.0	.1	.0	.4	3.6	
.3	.0	.3	1.9	2.6	2.6	1.6	1.2	.0	1.0	12.5	
.0	.0	.0	1.6	2.8	2.8	.3	.7	.3	.3	12.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.8	
12	6	5	36	61	44	20	12	3	11	153	
3.3	1.1	1.4	10.0	16.9	12.2	5.5	3.3	.8	3.0	42.4	361 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	3.6	4.4	4.4	4.4	4.4	4.4	4.4	4.4
= OR >5000	5.8	7.4	7.4	7.4	7.4	7.4	7.4	7.4
= OR >3500	9.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
= OR >2000	17.3	23.0	24.4	24.7	24.9	24.9	24.9	24.9
= OR >1000	27.1	35.9	40.5	41.1	41.4	41.4	41.4	41.4
= OR >600	30.1	42.2	49.0	50.4	51.2	51.2	51.2	51.2
= OR >300	30.7	42.7	50.1	51.8	52.6	52.6	52.6	52.6
= OR >150	30.7	42.7	50.4	52.6	53.7	53.7	53.7	53.7
= OR >0	30.7	43.0	51.2	53.7	55.3	57.0	57.8	57.8
TOTAL	112	157	187	196	202	208	211	211

TOTAL NUMBER OF OBS: 365

PCT FREQ NH <5/8: 42.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.8	8.8	6.6	6.9	6.9	2.9	4.9	8.1	41.5	3.4	407

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.2	.4	.4	.7	.0	.0	.0	.0	.2	1.9	
	TOT %	.2	.2	.6	.4	.7	.0	.0	.0	.0	.2	2.2	
1/2<1	PCP	.2	1.0	.1	.4	.3	.0	.2	.0	.0	.0	2.5	
	NO PCP	.0	.0	.2	.1	.4	.0	.2	.0	.0	.0	1.6	
	TOT %	.2	1.0	.2	.5	1.1	.7	.4	.0	.0	.0	4.1	
1<2	PCP	.7	.7	.3	.5	.0	.7	.3	.1	.0	.0	2.2	
	NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.7	.7	.3	.6	.1	.7	.3	.1	.0	.0	2.4	
2<5	PCP	.6	.3	1.3	.8	.3	.7	.4	.4	.0	.0	4.5	
	NO PCP	.4	.5	.2	.5	.8	.4	.5	.2	.0	.0	3.5	
	TOT %	1.1	.8	1.5	1.3	1.2	.7	.9	.6	.0	.0	7.9	
5<10	PCP	1.1	.9	1.3	.8	1.7	.4	1.2	.9	.0	.0	8.3	
	NO PCP	3.5	1.7	.9	1.4	2.3	1.6	4.1	4.2	.0	.3	19.5	
	TOT %	4.6	2.7	2.2	2.1	4.0	1.9	5.2	5.1	.0	.3	28.1	
10+	PCP	.7	.8	.1	.2	.6	.3	.4	.2	.0	.0	2.1	
	NO PCP	5.0	4.7	3.3	3.4	4.1	3.9	14.7	13.6	.0	.5	53.1	
	TOT %	4.7	4.7	3.4	3.6	4.8	4.1	15.0	13.8	.0	.5	55.2	
TOT OBS													629
TOT PCT													11.9 10.1 8.2 8.4 11.8 7.4 21.4 20.0 .0 1.0 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.2	.2	.4	.4	.0	.0	.0	.0	.0	.8	
	11-21	.2	.4	.3	.3	.3	.0	.0	.0	.0	.0	1.1	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.2	.6	.4	.7	.0	.0	.0	.0	.2	2.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.1	.0	.3	.0	.0	.5	
	11-21	.0	.5	.2	.2	1.0	.5	.0	.0	.0	.0	2.3	
	22+	.2	.5	.1	.2	.0	.2	.0	.1	.0	.0	1.2	
	TOT %	.2	.9	.2	.5	1.1	.7	.0	.4	.0	.0	3.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.5	
	11-21	.2	.3	.0	.4	.1	.0	.0	.2	.0	.0	1.2	
	22+	.0	.3	.3	.0	.0	.2	.0	.0	.0	.0	.8	
	TOT %	.2	.7	.3	.5	.1	.2	.3	.2	.0	.0	2.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.2	.3	.6	.9	.2	.2	.0	.0	.0	2.4	
	11-21	.5	.5	.2	.2	.0	.4	.2	.4	.0	.0	2.3	
	22+	.4	.2	.9	.6	.3	.2	.5	.2	.0	.0	3.2	
	TOT %	1.0	.8	1.4	1.4	1.2	.7	.8	.6	.0	.0	7.9	
5<10	0-3	.3	.0	.2	.2	.0	.0	.1	.2	.0	.3	1.2	
	4-10	1.0	.5	.7	.5	.9	.6	.8	.6	.0	.0	5.6	
	11-21	1.7	1.3	.8	1.0	2.0	1.4	3.1	3.0	.0	.0	14.2	
	22+	1.4	.8	.4	.8	1.0	.1	1.6	1.3	.0	.0	7.3	
	TOT %	4.3	2.5	2.1	2.4	3.9	2.0	5.5	5.2	.0	.3	28.3	
10+	0-3	.2	.2	.0	.2	.0	.0	.1	.2	.0	.5	1.2	
	4-10	1.9	1.4	.9	1.4	2.7	1.2	3.5	3.3	.0	.0	16.3	
	11-21	2.8	2.1	2.1	1.3	1.4	2.3	5.8	5.9	.0	.0	23.8	
	22+	.6	1.5	.6	.8	.7	.5	5.4	4.0	.0	.0	14.1	
	TOT %	5.5	5.1	3.6	3.6	4.8	4.1	14.8	13.4	.0	.5	59.4	
TOT OBS													661
TOT PCT													11.9 10.2 8.2 8.7 11.7 7.7 21.4 19.8 .0 .9 100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	2.5	.0	1.3	8.8	11.3	12.5	3.8	2.5	1.3	3.8	47.5	52.5	80
06009	8.0	.0	1.3	9.3	18.7	12.0	4.0	2.7	1.3	6.7	64.0	36.0	75
12015	2.8	2.8	2.8	13.0	17.6	12.0	3.6	3.7	.9	.9	62.0	38.0	108
18021	3.7	.9	.0	7.3	17.4	11.0	7.3	3.7	.0	3.7	55.0	45.0	109
TOT PCT	15 4.0	4 1.1	5 1.3	36 9.7	61 16.4	44 11.8	20 5.4	12 3.2	3 .8	13 3.5	213 57.3	159 42.7	372 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.7	3.5	1.2	4.1	33.7	55.8	172
06009	3.4	3.4	1.4	9.7	30.3	51.7	145
12015	1.5	6.1	3.5	9.1	26.8	53.0	198
18021	2.5	3.1	3.1	8.8	22.6	59.7	159
TOT PCT	15 2.2	28 4.2	16 2.4	53 7.9	191 28.3	371 55.0	674 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	2.6	5.1	19.2	30.8	50.0	78
06009	8.2	9.6	23.3	41.1	55.6	75
12015	2.8	9.3	29.0	33.6	37.4	107
18021	3.7	5.6	17.8	28.3	43.9	107
TOT PCT	15 4.1	27 7.4	82 22.5	131 35.9	152 41.6	365 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	.3	.3	.5	4	1.0
50/54	.0	.0	.0	.0	.3	.3	.3	.5	6	1.5
45/49	.0	.0	.3	.0	.3	.3	1.3	4.6	27	6.9
40/44	.0	.0	.0	.0	1.8	4.1	5.1	12.9	93	23.9
35/39	.0	.0	.0	1.5	3.6	5.7	9.0	8.0	108	27.8
30/34	.0	.0	.5	.5	2.1	5.1	6.2	5.7	78	20.1
25/29	.0	.0	.0	.8	1.8	3.9	1.3	6.4	55	14.1
20/24	.0	.0	.0	.0	.3	.5	1.0	2.6	17	4.4
15/19	.0	.0	.0	.0	.0	.3	.0	.0	1	.3
TOTAL	0	0	3	11	39	80	96	160	389	100.0
PCT	.0	.0	.8	2.8	10.0	20.6	24.7	41.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.2	.0	.0	.0	.3	.3	.0	.3	.0	.0
50/54	.0	.0	.0	.3	.8	.0	.1	.1	.0	.3
45/49	.0	.8	.3	2.8	2.2	.4	.2	.0	.0	.3
40/44	1.9	1.4	2.6	3.0	4.5	3.0	5.8	1.8	.0	.0
35/39	3.9	2.8	2.4	2.0	2.8	1.7	3.6	6.3	.0	.3
30/34	3.9	2.3	.4	.7	.6	.8	5.9	5.5	.0	.0
25/29	2.4	2.8	.8	.3	.1	.7	2.8	4.2	.0	.0
20/24	.6	.0	.2	.3	.0	.0	1.5	1.7	.0	.0
15/19	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0
TOTAL	12.9	10.1	6.7	9.3	11.2	6.9	22.0	20.2	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	58	54	49	37	27	21	20	36.8	189
06009	57	49	46	35	25	21	18	35.8	154
12015	58	54	46	35	23	20	19	35.1	213
18021	55	54	46	37	25	22	22	36.8	165
TOT	58	54	46	37	24	21	18	36.1	721

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.0	9.0	16.0	28.0	44.0	85	100		
06009	.0	1.1	2.3	28.1	26.1	44.3	86	88		
12015	.0	4.5	9.9	21.6	24.3	39.6	43	111		
18021	.0	5.2	17.5	17.5	21.6	38.1	62	97		
TOT	0	14	39	80	99	164	84	394		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	17 20	21 24	23 28	29 32	33 36	37 40	41 44	43 48	49 52	53 56	57 60	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	2	.0	.4
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.2	5	.2	.8
9/10	.0	.0	.0	.0	.0	.0	.4	.8	.6	.2	.0	10	.2	1.4
7/8	.0	.0	.0	.0	.0	.0	.4	.0	.2	.4	.0	5	.0	1.0
6	.0	.0	.0	.0	.0	.2	.2	.8	.2	.0	.0	7	.0	1.4
5	.0	.0	.0	.0	.4	1.6	.8	.0	.0	.0	.0	14	.4	2.3
4	.0	.0	.0	.0	.6	.4	1.0	1.4	.6	.0	.0	20	1.0	2.9
3	.0	.0	.0	.0	.2	1.0	2.0	.4	.4	.0	.0	20	.8	3.1
2	.0	.0	.0	.0	.4	2.1	3.3	1.6	.0	.0	.0	38	1.2	6.3
1	.0	.0	.0	.0	.0	2.9	2.7	.8	.0	.0	.0	33	1.0	5.5
0	.0	.0	.0	.0	.8	3.5	2.1	.4	.0	.0	.0	35	.4	6.4
-1	.0	.0	.2	.2	.8	2.9	1.2	.4	.0	.0	.0	29	.0	5.7
-2	.0	.0	.0	.2	1.8	2.7	1.6	.0	.0	.0	.0	32	.0	6.3
-3	.0	.0	.2	.8	2.1	2.5	.4	.0	.0	.0	.0	31	.2	5.9
-4	.0	.0	.2	2.5	3.3	2.7	.8	.0	.0	.0	.0	49	.2	9.4
-5	.0	.0	.2	1.4	2.5	.8	.6	.2	.0	.0	.0	29	.2	5.5
-6	.0	.0	.4	2.1	2.1	.8	.0	.0	.0	.0	.0	28	.0	5.5
-7/-8	.0	.0	1.0	4.3	1.6	1.0	.0	.2	.0	.0	.0	41	.0	8.0
-9/-10	.0	.8	2.5	2.5	1.4	.0	.0	.0	.0	.0	.0	37	.2	7.0
-11/-13	.0	2.5	2.5	.6	.4	.0	.0	.0	.0	.0	.0	31	.0	6.1
-14/-16	.4	1.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	11	.0	2.1
-17/-19	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	4	.0	.8
-23/-25	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	4		40		93		93		12		2	512	30	482
PCT	.8	22	78	123	39	7.6	2.3	1.2	.4	100.0	5.9	94.1		

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	.0	.0	1.1
1-2	.6	1.1	1.1	.0	.0	.0	2.9	.0	1.3	1.1	.0	.0	.0	2.4
3-4	.0	.0	2.1	1.0	.0	.0	3.1	.0	.0	2.6	.1	.0	.0	2.7
5-6	.0	.0	.0	2.3	.0	.0	2.9	.0	.0	.9	1.1	.6	.0	2.6
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.7	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.1	4.4	3.3	.4	.0	9.9	.6	1.9	4.6	2.0	1.3	.0	10.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.6	.0	.0	.0	1.0	.0	.7	.0	.0	.0	.0	.7
1-2	.0	.4	.6	.0	.0	.0	1.0	.0	1.3	1.1	.0	.0	.0	2.4
3-4	.0	.0	.4	.6	.0	.0	1.0	.0	.0	.6	.6	.0	.0	1.1
5-6	.0	.0	.9	.6	.0	.0	1.4	.0	.0	1.7	1.9	.0	.0	3.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
8-9	.0	.0	.6	.4	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	3.0	1.6	.0	.0	5.4	.0	2.0	3.4	3.0	.0	.0	8.4

PERIOD: (OVER-ALL) 1963-1970

NOVEMBER

AREA 0007 ANTICOSTI ISLAND
49.5N 62.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.4	.6	.0	.0	.0		1.0	.0	1.3	.0	.0	.0	.0		1.3
1-2	.0	3.1	.6	.0	.0	.0		3.7	.0	.7	.6	.0	.0	.0		1.3
3-4	.0	1.1	1.6	.0	.0	.0		2.7	.0	.1	.9	.6	.0	.0		1.6
5-6	.0	.4	.0	1.0	.0	.0		1.4	.0	.1	1.7	.0	.0	.0		1.9
7	.0	.0	.0	.6	.0	.0		.6	.0	.0	.0	.6	.0	.0		.6
8-9	.0	.0	.0	.6	.6	.0		1.1	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.6	.0	.0	.0	.0		.6	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	9.7	2.7	2.1	.6	.0		11.1	.0	2.3	3.1	1.1	.0	.0		6.6

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.4	.6	.0	.0	.0	.0		1.0	.1	.6	.0	.0	.0	.0		.7	
1-2	.0	3.4	1.9	.0	.0	.0		7.3	.0	3.1	2.1	.0	.0	.0		5.3	
3-4	.0	1.6	2.1	1.6	.0	.0		5.3	.0	1.1	4.0	.1	.0	.0		5.3	
5-6	.0	.0	3.0	.6	.0	.0		3.6	.0	.0	3.9	2.3	.0	.0		6.1	
7	.0	.0	1.1	1.9	.0	.0		3.0	.0	.0	.6	1.6	.6	.0		2.7	
8-9	.0	.0	.6	1.0	.9	.0		2.4	.0	.0	.0	.1	.3	.0		.4	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.6	.0		.6	
13-16	.0	.0	.0	.6	.6	.0		1.1	.0	.0	.6	.6	.0	.0		1.1	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.4	7.6	6.7	5.6	1.4	.0		23.7	.1	4.9	11.1	4.7	1.4	.0		22.3	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.0	4.5	1.1	.0	.0	.0	10.6	
1-2	.6	16.8	8.9	.0	.0	.0	26.3	
3-4	.0	3.9	14.0	4.5	.0	.0	22.3	
5-6	.0	.6	12.3	9.5	.6	.0	22.9	
7	.0	.0	2.2	5.0	.6	.0	7.8	
8-9	.0	.0	1.1	2.8	1.7	.0	5.6	
10-11	.0	.0	.0	.0	1.1	.0	1.1	
12	.0	.0	.0	.0	.6	.0	.6	
13-16	.0	.0	.6	1.1	.6	.0	2.2	
17-19	.0	.6	.0	.0	.0	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.6	26.3	40.2	27.9	5.0	.0	100.0	179

PERIOD: (OVER-ALL) 1950-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	15.7	16.2	9.2	3.9	.9	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	110	4
6-7	.0	2.6	3.1	9.2	1.3	3.9	1.3	.0	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	6
8-9	.0	.4	.4	.4	1.3	1.7	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	7
10-11	.0	.0	.0	.4	.4	.4	1.3	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	8	11
12-13	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	4.4	5.7	4.8	2.2	1.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	3
TOTAL	14	36	37	49	20	17	9	1	3	2	1	0	0	0	0	0	0	0	0	229	4
PCT	6.1	24.5	24.9	21.4	8.7	7.4	3.9	.4	1.3	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1922-1970

AREA 0007 ANTICOSTI ISLAND
49.5N 63.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.8	.0	.0	.0	23.6	.0	.0	73.6	4.7	.0	.0	.0	.0	2.8	68.9
NE	.0	.0	.0	.0	17.2	.0	.0	17.2	1.6	.0	.0	.0	.0	.0	81.2
E	14.1	.0	.0	.0	14.1	5.1	5.1	33.3	19.2	.0	.0	.0	.0	.0	47.4
SE	3.7	.0	.0	.0	3.7	.0	.0	7.4	3.7	.0	.0	.0	.0	.0	88.9
S	8.6	.0	12.3	.0	9.9	.0	13.6	35.8	.0	.0	9.9	.0	.0	.0	54.3
SW	2.3	9.1	6.8	.0	9.1	.0	2.3	27.3	18.2	.0	.0	.0	.0	.0	54.5
W	.0	.0	1.5	2.0	10.7	1.5	.0	15.6	8.3	.0	1.5	.0	.0	.0	74.6
NW	.0	.0	.0	.0	20.8	.5	.0	21.3	4.9	.0	.5	.0	.0	.5	72.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.0	.5	2.0	.5	15.2	1.0	2.0	72.3	7.1	.0	1.5	.0	.0	.5	68.5
TOT OBS:	197														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.8	1.9	1.9	.0	13.5	.0	1.9	71.2	13.5	.0	1.9	.0	.0	.0	63.5
06009	.0	.0	2.0	2.0	16.3	2.0	2.0	24.5	2.0	.0	2.0	.0	.0	.0	71.4
12015	.0	.0	2.4	.0	9.8	.0	.0	12.2	9.8	.0	2.4	.0	.0	.0	75.6
18021	7.0	.0	1.8	.0	19.3	1.8	3.5	78.1	3.5	.0	.0	.0	.0	1.8	66.7
TOT PCT	3.0	.5	2.0	.5	15.1	1.0	2.0	72.1	7.0	.0	1.5	.0	.0	.5	68.8
TOT OBS:	199														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	5.3	6.3	2.7	.7	.0		15.0	16.0		12.8	21.9	12.5	16.7	15.5	50.0	13.0	21.4
NE	.0	2.3	4.3	.7	.9	.5		8.7	18.5		15.3	12.5	6.8	16.7	10.1	.0	4.3	.0
E	.0	1.3	2.9	1.7	3.5	.0		9.4	25.7		12.2	.0	12.5	.0	8.9	8.3	5.8	14.3
SE	.0	.7	2.1	.1	.2	.0		3.1	14.7		2.0	3.1	5.2	.0	3.0	8.3	2.4	.0
S	.3	2.8	4.0	2.3	.5	.0		9.9	16.3		7.1	9.4	11.5	.0	13.7	.0	11.1	.0
SW	.6	1.6	2.4	.9	.0	.0		5.6	14.4		8.2	3.1	4.2	.0	8.3	.0	4.3	.0
W	.9	5.3	5.6	7.4	3.3	1.3		23.8	22.0		21.4	31.3	19.3	33.3	23.2	16.7	27.9	39.3
NW	.0	7.6	11.5	3.6	1.6	.1		24.4	17.0		20.9	18.8	28.1	33.3	17.3	16.7	31.3	25.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	4	58	84	42	23	4	215		18.7		49	8	48	3	42	6	52	7
TOT PCT	1.9	27.0	39.1	19.5	10.7	1.9		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	1.3	8.4	2.9	2.1	.3		15.0	16.0	14.0	12.7	19.8	14.0	
NE	.9	4.5	1.2	1.2	.9		8.7	18.5	14.9	7.4	8.9	3.8	
E	.3	2.0	2.7	4.3	.0		9.4	25.7	10.5	11.8	8.9	6.8	
SE	.5	2.2	.1	.3	.0		3.1	14.7	2.2	4.9	3.6	2.1	
S	2.1	3.5	3.4	.9	.0		9.9	16.3	7.5	10.8	12.0	9.7	
SW	.8	3.1	.7	.9	.0		5.6	14.4	7.5	3.9	7.3	3.8	
W	2.2	6.5	8.5	4.4	2.2		23.8	22.0	22.8	20.1	22.4	29.2	
NW	1.5	12.1	7.6	2.6	.7		24.4	17.0	20.6	28.4	17.2	30.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
TOT OBS	21	91	38	36	9	215		18.7	57	51	48	59	
TOT PCT	9.8	42.3	17.0	16.7	4.2		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	.0	.0	26.3	45.6	15.8	10.5	1.8	18.8	100.0	57
0600	.0	2.0	23.5	47.1	13.7	11.8	2.0	18.8	100.0	51
1200	.0	4.2	31.3	35.4	16.7	8.3	4.2	17.6	100.0	48
1800	.0	1.7	27.1	28.8	30.5	11.9	.0	19.3	100.0	39
TOT	.0	4	88	84	42	23	4	18.7		215
PCT	.0	1.9	27.0	39.1	19.5	10.7	1.9	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.9	1.9	1.9	7.5		5.7
NE	5.1	.0	1.0	1.0		2.3
E	.7	.0	.0	6.1		7.1
SE	.0	.0	1.0	1.9		7.3
S	.0	.7	1.7	5.3		6.8
SW	1.2	1.5	.2	2.4		5.3
W	7.3	2.7	4.4	10.7		5.1
NW	.0	.0	.0	13.6		5.5
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	25	9	19	50	103	5.5
TOT PCT	24.3	8.7	18.4	48.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.7	4.1	1.5	.7	.0	.0	.0	6.3	
NE	.0	.0	.0	.2	.2	.2	.2	.0	.0	.0	6.1	
E	.0	1.0	1.0	1.9	.7	1.0	.0	.5	.0	.0	.7	
SE	.0	.0	.0	.0	1.5	1.0	.0	.5	.0	.0	.0	
S	.0	.0	.0	.0	3.4	2.7	.0	.0	.0	.0	1.7	
SW	.0	.0	.0	1.0	.2	1.5	.0	.0	.0	.0	2.7	
W	.7	.0	.0	3.4	4.6	1.5	1.0	1.0	.0	.0	12.9	
NW	1.2	.0	.0	2.4	9.5	4.4	1.9	1.0	.0	.0	10.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	25	9	19	50	103	103	103	103	103	103	103	
TOT PCT	2.9	1.0	1.0	9.7	24.3	13.6	3.9	2.9	.0	.0	40.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM)	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
= OR >3500	5.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
= OR >2000	17.5	19.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
= OR >1000	34.0	41.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
= OR >600	37.9	48.5	52.4	52.4	52.4	52.4	52.4	52.4	52.4
= OR >300	37.9	48.5	52.4	54.4	55.3	55.3	55.3	55.3	55.3
= OR >150	37.9	49.5	53.4	55.3	56.3	56.3	56.3	56.3	56.3
= OR >0	37.9	49.5	54.4	56.3	57.3	59.2	59.2	59.2	59.2
TOTAL	39	51	56	58	59	61	61	61	61

TOTAL NUMBER OF OBS: 103

PCT FREQ NH <5/8: 40.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.7	9.4	7.8	4.7	3.1	6.9	3.1	5.5	46.9	1.6	120

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.5	.0	1.0	.0	.4	1.1	.0	.0	3.0	
	NO PCP	.0	.0	.0	.0	1.0	.5	.0	.0	.0	.0	1.5	
	TOT %	.0	.0	.5	.0	2.0	.5	.4	1.1	.0	.0	4.5	
1/2<1	PCP	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	1.0	
1<2	PCP	.0	.5	.5	.0	.4	.8	1.3	1.6	.0	.0	5.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
	TOT %	.0	.5	.5	.0	.4	.8	1.8	1.6	.0	.0	5.5	
2<5	PCP	1.0	.0	1.8	.3	.0	.0	.5	.5	.0	.0	4.0	
	NO PCP	.0	.0	.5	.5	.4	.1	1.5	1.0	.0	.0	4.0	
	TOT %	1.0	.0	2.3	.8	.4	.1	2.0	1.5	.0	.0	8.0	
5<10	PCP	1.8	.8	.5	.0	2.3	.5	.5	.5	.0	.0	6.5	
	NO PCP	1.9	1.5	2.4	1.0	.9	.5	2.9	.5	.0	.0	11.6	
	TOT %	3.6	2.3	2.9	1.0	3.1	.8	3.4	1.0	.0	.0	18.1	
10+	PCP	.4	.1	.0	.0	.0	.5	1.4	1.6	.0	.0	4.0	
	NO PCP	8.3	5.2	3.1	1.6	4.3	2.9	16.8	16.6	.0	.0	58.8	
	TOT %	8.7	5.3	3.1	1.6	4.3	3.4	18.2	18.2	.0	.0	62.8	
TOT OBS													199
TOT PCT		13.8	8.0	9.8	3.4	10.2	5.5	25.8	23.5	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
	11-21	.0	.0	.0	.0	1.0	.0	.0	.5	.0	.0	1.5	
	22+	.0	.0	.5	.0	.5	.5	.4	.6	.0	.0	2.5	
	TOT %	.0	.0	.5	.0	2.0	.5	.4	1.1	.0	.0	4.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	1.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.5	.0	.4	.2	.4	.5	.0	.0	2.0	
	11-21	.0	.5	.0	.0	.0	.5	.0	1.0	.0	.0	2.0	
	22+	.0	.0	.0	.0	.0	.0	1.4	.1	.0	.0	1.5	
	TOT %	.0	.5	.5	.0	.4	.7	1.7	1.6	.0	.0	5.5	
2<5	0-3	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.5	
	4-10	1.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	1.5	
	11-21	.0	.0	.5	.5	.0	.0	1.5	1.5	.0	.0	4.0	
	22+	.0	.0	1.7	.2	.0	.0	.5	.0	.0	.0	2.5	
	TOT %	1.0	.0	2.2	.7	.4	.1	2.0	2.0	.0	.0	8.5	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.7	.2	.5	.0	.5	.0	.0	.0	.0	.0	3.0	
	11-21	.7	.9	1.0	.9	1.1	.7	1.0	.1	.0	.0	6.5	
	22+	1.6	1.1	1.4	.1	1.5	.0	2.4	.9	.0	.0	9.0	
	TOT %	4.1	2.2	2.9	1.0	3.1	.7	3.4	1.0	.0	.0	18.4	
10+	0-3	.0	.0	.0	.0	.0	.5	1.0	.0	.0	.0	1.5	
	4-10	1.7	1.7	.4	.7	1.6	1.0	5.3	6.3	.0	.0	18.9	
	11-21	5.7	2.4	1.2	.9	2.1	1.4	3.5	7.7	.0	.0	24.9	
	22+	1.1	1.1	1.5	.0	.5	.5	8.2	4.0	.0	.0	16.9	
	TOT %	8.6	5.2	3.1	1.6	4.2	3.4	18.0	18.0	.0	.0	62.2	
TOT OBS													201
TOT PCT		14.2	8.0	9.7	3.4	10.1	5.5	25.5	23.8	.0	.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	3.8	.0	.0	3.8	30.8	3.8	3.8	3.8	.0	.0	50.0	50.0	26
06009	8.3	4.2	.0	12.5	16.7	8.3	4.2	8.3	.0	.0	62.5	37.5	74
12015	.0	.0	.0	7.4	25.9	25.9	3.7	.0	.0	.0	63.0	37.0	27
18021	.0	.0	3.2	12.9	19.4	12.9	3.2	.0	.0	.0	51.6	48.4	31
TOT	3	1	1	10	25	14	4	3	0	0	61	47	108
PCT	2.8	.9	.9	9.3	23.1	13.0	3.7	2.8	.0	.0	56.5	43.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.7	.0	9.6	11.1	20.4	59.3	54
06009	6.1	.0	10.7	6.1	16.3	61.2	49
12015	4.7	2.3	.0	.0	25.6	67.4	43
18021	5.3	1.8	9.3	14.0	12.3	51.4	57
TOT	10	2	11	17	37	126	203
PCT	4.9	1.0	5.4	8.4	18.2	62.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	4.5	4.5	9.1	50.0	40.9	22
06009	8.3	12.5	25.0	37.5	37.5	24
12015	.0	3.8	7.7	57.7	34.6	26
18021	.0	3.2	25.8	25.8	48.4	31
TOT	3	6	18	43	42	103
PCT	2.9	5.8	17.5	41.7	40.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	1.0	.0	.0	.0	1	1.0
40/44	.0	.0	.0	.0	.0	.0	1.0	2.0	3	2.9
35/39	.0	.0	.0	.0	1.0	.0	3.9	8.8	14	13.7
30/34	.0	.0	1.0	1.0	1.0	4.9	6.9	12.7	28	27.5
25/29	.0	.0	1.0	2.0	2.0	4.9	4.9	7.8	23	22.5
20/24	.0	.0	1.0	.0	2.9	3.9	2.9	5.9	17	16.7
15/19	.0	.0	.0	.0	.0	.0	4.9	6.9	12	11.8
10/14	.0	.0	.0	.0	.0	.0	.0	3.9	4	3.9
TOTAL	0	0	3	3	8	14	25	49	102	100.0
PCT	.0	.0	2.9	2.9	7.8	13.7	24.5	48.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0
40/44	.0	.0	1.7	.2	.7	.2	.0	.0	.0	.0
35/39	.7	.0	4.4	2.5	1.0	.2	3.4	1.5	.0	.0
30/34	2.0	1.0	2.0	.7	5.1	2.9	5.4	8.3	.0	.0
25/29	4.2	1.7	1.0	.2	.7	.2	5.4	9.1	.0	.0
20/24	5.6	1.0	1.7	.2	.0	1.2	4.2	2.7	.0	.0
15/19	2.2	1.2	.0	.0	.0	.0	4.7	3.7	.0	.0
10/14	1.5	.2	.0	.0	.0	.0	.7	1.5	.0	.0
TOTAL	16.2	5.1	10.8	3.9	7.6	4.9	24.8	26.7	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	41	40	37	27	10	6	6	26.1	56
06009	49	48	39	27	13	10	10	27.1	51
12015	57	56	51	28	12	10	10	29.0	47
18021	50	49	39	28	12	3	3	27.0	58
TOT	57	51	41	28	12	5	3	27.2	212

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	11.1	3.7	18.5	29.6	37.0	83	27		
06009	.7	.0	14.8	7.4	22.2	55.6	88	27		
12015	.0	15.0	5.0	10.0	30.0	40.0	83	20		
18021	.0	.0	7.1	17.9	17.9	57.1	88	28		
TOT	0	6	8	14	25	49	86	102		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	43 48	TOT	N FOG	NO FOG
5	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	.6		5	.6	2.5
4	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0		1	.0	.6
3	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0		2	.0	1.3
2	.0	.0	.0	.0	.0	.0	.0	2.5	.6	.6	.0		6	.0	3.8
1	.0	.0	.0	.0	.0	.0	.0	.6	1.9	.6	.0		5	.0	3.1
0	.0	.0	.0	.0	.0	.0	.0	1.3	3.8	.0	.0		8	.0	5.0
-1	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	.0	.0		4	.0	2.5
-2	.0	.0	.0	.0	.0	.0	.0	2.5	4.4	.0	.0		11	.0	6.9
-3	.0	.0	.0	.0	.0	.0	.0	1.3	.6	.0	.0		3	.0	1.9
-4	.0	.0	.0	.0	.0	.0	.0	.6	3.8	1.3	.0		11	.0	6.9
-5	.0	.0	.0	.0	.0	.0	2.5	3.1	.6	.0	.0		10	.0	6.3
-6	.0	.0	.0	.0	.0	.0	1.3	1.3	.6	.0	.0		5	.0	3.1
-7/-8	.0	.0	.0	.0	.6	1.3	5.6	1.3	1.3	.0	.0		16	.6	9.4
-9/-10	.0	.0	.0	.0	.0	.0	1.9	5.0	1.9	.0	.0		14	.0	8.8
-11/-13	.0	.0	.0	.0	4.4	5.0	1.9	.6	.0	.0	.0		19	.0	11.9
-14/-16	.0	.0	.0	1.9	5.6	3.1	1.3	.0	.0	.0	.0		19	.0	11.9
-17/-19	.0	.0	.0	1.9	2.5	.0	.0	.0	.0	.0	.0		7	.0	4.4
-20/-22	.0	.0	.6	1.3	.0	.0	.0	.0	.0	.0	.0		4	.0	2.5
-23/-25	.0	.6	3.8	.6	.0	.0	.0	.0	.0	.0	.0		8	.0	5.0
-26/-30	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0		1	.0	.6
<-30	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		1	.0	.6
TOTAL	1		8		21		30		31		3		160		
PCT	.6	1	3.0	5.6	13.1	11.3	18.8	18.8	19.4	4.4	1.9	.6	100.0	1.3	98.8

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.1	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.2	2.1	.0	.0	.0	6.3	.0	.6	.3	.0	.0	.0	.9
3-4	.0	.0	4.2	.0	.0	.0	4.2	.0	.0	.6	.0	.0	.0	.6
5-6	.0	2.4	2.1	.0	.0	.0	4.5	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.7	8.4	.0	.0	.0	17.2	.0	.6	2.4	.0	.0	.0	3.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
3-4	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	.9	.0	2.1	.0	3.0	.0	.0	.0	.0	.3	.0	.3
7	.0	.0	.0	1.2	2.4	.0	3.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.0	1.2	5.7	.0	9.9	.0	1.2	.6	.0	.3	.0	2.1

PERIOD: (OVER-ALL) 1963-1970

DECEMBER
TABLE 18 (CONT)AREA 0007 ANTICOSTI ISLAND
49.5N 63.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.4	2.1	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0
3-6	.0	.9	3.0	.0	.0	.0	3.9	.0	.3	1.5	.0	.0	.0	1.8	.0
5-6	.0	.0	.9	1.2	.0	.0	2.1	.0	.0	1.5	.0	.0	.0	1.5	.0
7	.0	.0	.0	1.2	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	6.0	2.4	.0	.0	13.0	.0	.3	3.0	.0	.0	.0	3.3	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.2	.0	.0	.0	.0	.0	1.2	.0	.3	.0	.0	.0	.0	.3	.0
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	9.6	.0	.0	.0	.0	9.6	.0
3-6	.0	2.4	3.9	1.2	.0	.0	7.5	.0	1.2	9.6	1.2	.0	.0	12.0	.0
5-6	.0	.0	1.2	4.5	.0	.0	5.7	.0	.0	6.3	1.5	.0	.0	7.8	.0
7	.0	.0	.0	2.1	.0	.0	2.1	.0	.0	1.2	1.3	.0	.0	1.5	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	3.6	5.1	7.8	1.2	1.2	20.2	.0	11.1	17.2	3.0	.0	.0	31.3	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.4	4.8	.0	.0	.0	.0	7.1	.0
1-2	.0	17.9	4.8	.0	.0	.0	22.6	.0
3-6	.0	4.8	25.0	2.4	.0	.0	32.1	.0
5-6	.0	2.4	14.3	7.1	2.4	.0	26.2	.0
7	.0	.0	1.2	4.8	2.4	.0	8.3	.0
8-9	.0	.0	.0	.0	1.2	.0	1.2	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	1.2	.0	1.2	.0
20-22	.0	.0	.0	.0	.0	1.2	1.2	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	29.8	45.2	14.3	7.1	1.2	100.0	.0

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.0	17.2	18.2	13.1	5.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	3
6-7	.0	.0	7.1	7.1	3.0	2.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	6
8-9	.0	.0	.0	3.0	3.0	1.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
10-11	.0	.0	.0	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	15
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.0	1.0	5.1	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	3
TOTAL	5	18	30	25	11	4	0	3	1	1	1	0	0	0	0	0	0	0	0	99	5
PCT	5.1	18.2	30.3	25.3	11.1	4.0	.0	3.0	1.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1921-1971
(OVER-ALL) 1864-1971

ANNUAL

AREA 0007 ANTICOSTI ISLAND
49.5N 62.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	4.2	1.6	1.8	.0	7.7	.5	.1	13.1	2.2	.4	2.8	.3	1.2	.4	77.6
NE	9.9	1.1	3.1	.4	10.0	.7	.4	24.5	2.6	.2	6.6	.8	.8	.0	64.6
E	11.1	1.2	4.0	.0	11.7	.8	.6	28.8	4.4	.1	11.0	.4	1.1	.0	54.3
SE	10.7	.8	2.2	.7	7.1	.2	.1	21.1	3.2	.2	10.8	.6	1.3	.0	62.9
S	9.2	1.6	2.9	.0	5.6	.7	1.2	19.4	2.4	.2	11.0	.5	1.8	.0	64.7
SW	4.8	2.4	1.7	.4	4.6	.0	.2	13.8	2.9	.1	6.1	.6	2.5	.0	74.0
W	1.6	.6	.7	.2	7.0	.2	.0	10.2	2.7	.1	3.2	.3	1.7	.1	81.6
NW	1.7	.9	1.0	.0	6.1	.5	.0	10.1	1.9	.1	3.6	.4	1.1	.1	82.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.4	.0	.3	.0	.0	.0	.0	.6	.0	.3	10.3	.4	2.6	.0	77.4
TOT PCT	5.2	1.1	1.8	.1	7.2	.4	.2	13.6	2.5	.2	6.5	.4	1.4	.1	73.2
TOT OBS:	6912														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0000	5.5	1.2	1.7	.1	6.2	.3	.2	14.9	3.1	.3	7.0	.5	1.2	.0	72.9
0600	5.5	1.4	1.9	.2	7.3	.3	.2	16.6	4.0	.4	4.5	.6	.8	.0	73.3
1200	5.0	1.0	2.1	.2	7.2	.4	.1	13.6	2.7	.1	7.9	.3	1.4	.0	72.0
1800	4.9	.8	1.7	.0	7.5	.4	.4	14.8	1.7	.0	5.7	.6	2.1	.3	74.8
TOT PCT	5.2	1.1	1.9	.1	7.2	.4	.2	13.7	2.5	.2	6.5	.4	1.4	.1	73.2
TOT OBS:	7257														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WNO DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.6	2.9	4.1	1.5	.4	.1		9.6	14.1		9.1	13.1	9.9	17.0	10.5	15.3	6.2	8.5	
NE	.4	2.4	2.6	1.4	.3	.2		7.4	15.5		6.2	7.9	6.4	9.6	8.9	8.4	6.4	4.6	
E	.6	3.0	3.5	1.7	.6	.0		9.4	15.9		8.9	6.8	9.1	3.9	10.5	9.8	9.9	10.2	
SE	.6	3.7	3.5	1.2	.2	.1		9.3	13.9		10.9	12.3	7.9	6.2	7.1	9.1	8.9	9.9	
S	.4	4.2	4.2	1.3	.2	.0		10.3	13.7		11.7	10.3	9.4	14.8	10.5	7.6	9.5	8.4	
SW	.5	4.3	4.0	1.0	.3	.0		10.0	13.5		8.5	9.3	11.3	10.8	10.9	11.2	10.2	8.6	
W	1.1	6.5	8.4	4.3	1.3	.3		21.8	16.6		23.0	18.7	24.3	13.2	19.4	19.2	25.5	25.1	
NW	.7	5.2	8.2	4.1	1.3	.4		19.9	16.7		18.7	19.9	17.4	14.5	20.3	18.2	21.1	24.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.3							2.3	.0		2.9	1.7	4.3	1.7	1.9	1.2	2.3	.7	
TOT OBS							7646		15.1		1593	370	1041	503	1378	591	1203	567	
TOT PCT	7.2	37.1	38.6	16.5	4.6	1.0		100.0			100.0	100.0	100.0	91.7	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	1.7	4.4	2.4	1.0	.2		9.6	14.1	10.1	11.1	11.2	6.7		
NE	1.3	3.1	1.9	.9	.2		7.4	15.5	6.6	7.1	8.9	6.1		
E	1.9	3.8	2.6	1.0	.1		9.4	15.9	8.5	8.1	10.4	9.7		
SE	2.3	4.3	2.2	.4	.1		9.3	13.9	11.2	8.2	7.6	9.2		
S	2.0	5.4	2.4	.4	.1		10.3	13.7	11.2	10.4	9.8	9.4		
SW	2.1	5.1	2.2	.7	.0		10.0	13.5	8.8	11.1	11.0	9.8		
W	3.5	8.7	6.5	2.6	.5		21.8	16.6	21.9	22.7	19.6	25.2		
NW	2.5	7.8	6.4	2.3	.8		19.9	16.7	19.0	17.5	19.6	22.1		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	2.3						2.3	.0	2.7	3.8	1.8	1.8		
TOT OBS						7646		15.1	2163	1544	2169	1770		
TOT PCT	19.6	42.6	26.5	9.2	2.1		100.0		100.0	100.0	100.0	100.0		

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	2.7	5.0	31.5	41.0	15.3	3.5	.9	14.7	100.0	2163
0600	3.8	5.9	35.5	36.5	11.7	6.1	.6	14.0	100.0	1944
1200	1.8	5.0	32.5	38.5	17.0	3.6	1.7	15.2	100.0	2169
1800	1.8	4.4	30.3	36.8	19.5	6.6	.6	16.2	100.0	1770
TOT								15.1		7646
PCT	2.3	4.9	32.1	38.6	16.5	4.6	1.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	2.9	.7	1.7	3.1		4.7
NE	1.4	.5	1.1	3.5		5.6
E	1.4	.5	1.7	6.6		6.6
SE	1.2	.9	1.7	4.8		6.2
S	1.7	.8	2.4	4.0		5.6
SW	2.9	1.5	2.3	3.1		4.8
W	8.9	4.0	5.7	5.1		4.2
NW	7.6	3.0	4.8	5.9		4.2
VAR	.0	.0	.0	.0		.0
CALM	1.1	.6	.5	.6		3.2
TOT OBS					3788	4.9
TOT PCT	29.0	12.5	21.9	36.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.3	.1	.1	.6	1.0	.7	.2	.1	.3	.3	4.9	
NE	.5	.1	.4	.5	1.2	.6	.2	.2	.1	.1	2.6	
E	1.0	.3	.4	1.2	1.6	1.2	.4	.2	.3	.4	5.1	
SE	1.1	.1	.2	.6	1.4	.8	.2	.3	.1	.4	3.2	
S	.6	.1	.1	.8	1.3	1.0	.4	.1	.2	.4	3.8	
SW	.3	.1	.2	.7	1.3	.8	.1	.1	.1	.3	5.9	
W	.5	.1	.2	1.3	2.7	1.6	.7	.4	.1	.5	15.6	
NW	.6	.1	.1	1.0	2.8	2.1	.6	.3	.2	.5	13.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	.2	.2	.1	.1	.1	.1	2.0	
TOT OBS											3788	
TOT PCT	5.1	.8	1.7	6.7	13.4	9.1	2.9	1.7	1.5	3.0	54.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.5	4.0	4.5	4.5	4.5	4.5	4.5	4.5
= OR >5000	3.8	5.7	6.2	6.2	6.2	6.2	6.2	6.2
= OR >3500	5.7	8.4	9.0	9.0	9.1	9.1	9.1	9.1
= OR >2000	10.7	16.1	17.7	18.0	18.0	18.1	18.1	18.1
= OR >1000	16.2	25.9	30.2	30.9	31.3	31.4	31.5	31.5
= OR >600	18.5	30.3	36.1	37.3	38.1	38.2	38.3	38.3
= OR >300	19.1	31.3	37.4	38.9	39.8	40.0	40.0	40.0
= OR >150	19.1	31.5	37.8	39.4	40.4	40.7	40.8	40.8
= OR > 0	19.2	31.7	38.3	40.6	42.4	44.0	45.6	46.0

TOTAL NUMBER OF OBS: 3907

PCT FREQ NM <5/8: 54.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
18.1	13.7	10.2	6.4	4.1	4.0	4.7	6.7	27.7	4.5	4268

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.2	.4	.1	.1	.*	.2	.1	.0	.0	1.4	
	NO PCP	.1	.1	.5	.6	.7	.9	.3	.2	.0	.1	2.9	
	TOT %	.3	.3	.9	.8	.8	.9	.4	.3	.0	.1	4.3	
1/2<1	PCP	.2	.3	.3	.4	.1	.1	.3	.1	.0	.0	1.8	
	NO PCP	.*	.1	.2	.3	.2	.2	.2	.2	.0	.*	1.5	
	TOT %	.2	.4	.6	.7	.3	.3	.4	.3	.0	.*	3.3	
1<2	PCP	.3	.4	.4	.2	.3	.1	.3	.6	.0	.0	2.5	
	NO PCP	.*	.*	.1	.1	.1	.1	.1	.1	.0	.1	.7	
	TOT %	.3	.4	.5	.3	.4	.3	.4	.7	.0	.1	3.2	
2<5	PCP	.3	.5	.9	.5	.3	.2	.5	.5	.0	.*	3.6	
	NO PCP	.3	.2	.6	.5	.5	.4	.6	.6	.0	.2	3.8	
	TOT %	.6	.6	1.5	1.1	.8	.6	1.1	1.1	.0	.2	7.5	
5<10	PCP	.4	.4	.7	.6	.8	.4	.8	.7	.0	.*	4.9	
	NO PCP	2.3	1.6	2.1	2.5	3.1	3.2	5.6	4.3	.0	.4	25.2	
	TOT %	2.8	2.0	2.8	3.1	4.0	3.8	6.3	5.0	.0	.5	30.1	
10+	PCP	.1	.1	.2	.1	.2	.2	.3	.3	.0	.0	1.6	
	NO PCP	4.9	3.0	3.3	3.5	3.8	4.9	13.3	12.3	.0	1.5	50.1	
	TOT %	5.1	3.1	3.5	3.7	4.0	4.7	13.6	12.6	.0	1.5	51.7	
TOT OBS													6912
TOT PCT		9.2	6.9	9.7	9.5	10.2	10.0	22.2	20.0	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.*	.*	.*	.1	.*	.*	.1	.1	.0	.1	.5	
	4-10	.*	.1	.2	.3	.4	.2	.1	.1	.0	.*	1.3	
	11-21	.1	.1	.1	.3	.4	.1	.1	.1	.0	.*	1.2	
	22+	.2	.2	.5	.1	.1	.1	.1	.1	.0	.*	1.3	
	TOT %	.3	.3	.9	.8	.9	.3	.4	.3	.0	.1	4.3	
1/2<1	0-3	.0	.0	.0	.1	.0	.*	.*	.*	.0	.*	.2	
	4-10	.*	.1	.1	.2	.1	.1	.1	.1	.0	.*	.8	
	11-21	.1	.1	.2	.3	.2	.1	.1	.2	.0	.*	1.3	
	22+	.1	.2	.2	.1	.*	.1	.2	.1	.0	.*	1.1	
	TOT %	.2	.4	.6	.7	.3	.3	.4	.4	.0	.*	3.3	
1<2	0-3	.0	.0	.0	.*	.*	.0	.*	.0	.0	.1	.1	
	4-10	.1	.1	.1	.1	.2	.1	.1	.1	.0	.*	.9	
	11-21	.1	.2	.3	.1	.1	.1	.1	.2	.0	.*	1.2	
	22+	.*	.1	.1	.1	.1	.*	.2	.3	.0	.*	1.1	
	TOT %	.3	.4	.5	.3	.4	.3	.4	.7	.0	.1	3.3	
2<5	0-3	.*	.0	.*	.*	.*	.*	.*	.*	.0	.2	.4	
	4-10	.1	.1	.3	.3	.3	.2	.3	.4	.0	.*	2.0	
	11-21	.3	.3	.5	.3	.3	.2	.4	.6	.0	.*	2.9	
	22+	.1	.2	.6	.4	.2	.1	.4	.2	.0	.*	2.3	
	TOT %	.6	.6	1.5	1.1	.8	.6	1.1	1.2	.0	.2	7.6	
5<10	0-3	.2	.1	.2	.2	.2	.2	.4	.3	.0	.5	2.1	
	4-10	.6	.6	.9	1.1	1.3	1.3	1.4	1.1	.0	.*	8.8	
	11-21	1.1	.8	1.1	1.4	1.6	1.8	2.8	2.0	.0	.*	12.6	
	22+	.7	.5	.4	.3	.6	.5	1.7	1.6	.0	.*	6.3	
	TOT %	2.7	2.0	2.7	3.0	3.9	3.7	6.3	4.9	.0	.5	29.8	
10+	0-3	.4	.3	.2	.2	.2	.2	.6	.4	.0	1.5	4.0	
	4-10	1.7	1.2	1.4	1.7	1.7	2.3	4.5	3.4	.0	.*	17.9	
	11-21	2.2	1.1	1.4	1.2	1.8	1.7	5.0	5.3	.0	.*	19.7	
	22+	.8	.7	.4	.5	.4	.5	3.5	3.5	.0	.*	10.2	
	TOT %	5.1	3.2	3.5	3.7	4.1	4.6	13.6	12.5	.0	1.5	51.8	
TOT OBS													7157
TOT PCT		9.2	6.9	9.7	9.5	10.3	9.9	22.2	20.0	.0	2.4	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	4.5	.5	.9	5.6	13.6	6.3	2.5	1.4	1.4	3.3	40.0	60.0	1038
06009	3.4	.6	.7	6.8	11.6	9.4	3.0	1.5	1.7	3.7	42.5	57.5	801
12015	7.0	.5	2.4	6.9	14.6	10.9	2.5	1.6	1.7	2.6	50.7	49.3	1078
18021	3.4	1.2	2.1	6.6	11.7	9.0	3.2	1.8	1.3	2.6	42.8	57.2	1118
TOT PCT	5.0	.8	1.7	6.6	13.0	8.7	2.8	1.6	1.4	3.0	44.6	55.4	4035 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.8	2.8	3.3	8.5	33.1	48.6	2093
06009	4.0	2.3	2.8	6.8	27.7	56.5	1532
12015	5.3	4.6	3.0	6.5	32.5	48.2	2104
18021	4.0	3.4	3.7	8.1	25.6	55.6	1775
TOT PCT	4.4	3.4	3.3	7.5	29.8	51.7	7504 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	4.8	7.5	21.5	23.6	34.9	984
06009	3.6	5.1	16.5	30.7	52.8	771
12015	7.1	11.6	23.5	29.8	46.8	1062
18021	3.6	8.5	21.8	23.7	54.5	1090
TOT PCT	5.3	9.1	22.0	25.9	52.1	3907 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70/74	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
65/69	.0	.0	.0	.0	.2	.3	.2	.2	.9	.9
60/64	.0	.0	.0	.1	.5	1.3	1.7	1.3	4.9	4.9
55/59	.0	.0	.0	.1	.8	2.2	4.0	3.9	11.0	11.0
50/54	.0	.0	.1	.3	.9	1.9	4.1	4.8	11.9	11.9
45/49	.0	.0	.0	.3	.8	1.9	3.6	3.7	10.2	10.2
40/44	.0	.0	.1	.4	1.2	2.4	3.0	4.0	11.1	11.1
35/39	.0	.0	.0	.5	.9	1.9	3.6	4.3	11.3	11.3
30/34	.0	.0	.1	.4	.9	2.5	3.5	5.0	12.4	12.4
25/29	.0	.0	.1	.4	.6	1.7	2.1	3.3	8.2	8.2
20/24	.0	.0	.2	.0	.7	1.4	1.5	2.6	6.4	6.4
15/19	.0	.0	.0	.2	.7	.9	2.3	1.1	5.3	5.3
10/14	.0	.0	.1	.0	.2	1.1	1.2	.6	3.2	3.2
5/9	.0	.0	.0	.0	.3	.8	.7	.2	2.1	2.1
0/4	.0	.0	.0	.0	.0	.1	.4	.2	.8	.8
-1/-4	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1
TOTAL PCT	.0	.0	.7	2.8	8.8	20.4	32.1	35.2	4398	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70/74	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0
65/69	.0	.0	.0	.1	.2	.1	.2	.1	.0	.0
60/64	.0	.2	.5	.5	.8	.8	1.4	.5	.0	.3
55/59	.5	.4	1.2	1.4	1.9	1.6	2.8	1.0	.0	.2
50/54	.7	.7	1.3	1.1	1.6	1.5	2.8	1.6	.0	.6
45/49	.8	.6	1.0	1.3	1.1	1.0	2.4	1.6	.0	.4
40/44	.9	.7	1.1	1.3	1.1	.9	2.6	2.3	.0	.2
35/39	1.6	1.2	1.5	1.0	.9	.6	1.9	2.5	.0	.2
30/34	1.5	1.0	1.4	1.1	1.0	.9	2.3	3.0	.0	.1
25/29	1.2	.7	.9	.5	.4	.5	1.6	2.2	.0	.1
20/24	.9	.3	.8	.7	.4	.4	1.1	1.8	.0	.0
15/19	.6	.3	.6	.3	.1	.6	1.3	1.5	.0	.0
10/14	.3	.1	.0	.1	.4	.2	1.2	1.1	.0	.0
5/9	.3	.1	.1	.0	.0	.1	.7	.8	.0	.0
0/4	.1	.0	.0	.0	.0	.1	.2	.3	.0	.0
-1/-4	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
TOTAL PCT	9.5	6.3	10.4	9.1	9.9	9.4	22.5	20.4	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	56	50	39	29	24	1	47.0	2234
06009	81	56	51	38	24	24	-4	46.9	1607
12015	76	56	52	39	27	23	-3	46.7	2243
18021	75	56	51	40	29	24	-3	47.5	1826
TOT	81	57	51	39	28	23	-4	47.0	7910

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR								TOTAL OBS
	0-29	30-59	60-69	70-79	80-89	90-100	MEAN		
00003	.0	3.6	7.2	18.5	36.0	34.7	85	1307	
06009	.0	1.2	3.3	14.5	30.8	45.2	87	901	
12015	.0	3.2	7.1	21.6	31.1	37.1	85	1244	
18021	.0	5.1	13.4	23.9	28.1	29.5	81	1138	
TOT	0	14.4	36.0	96.4	149.4	168.8	344	4590	

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

ATR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	.0	.6
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	.1	1.4
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.3	.2	.2	.3	.3	.1	.0	.0	156	.1	1.7
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.5	.4	.5	.7	.8	.5	.1	.0	.0	330	.4	3.8
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.5	.7	.8	.7	.6	.5	.1	.0	.0	220	.3	2.3
5	.0	.0	.0	.0	.0	.0	.0	.0	.5	.7	.8	.7	.7	.7	.6	.5	.0	.0	.0	364	.6	4.4
4	.0	.0	.0	.0	.0	.0	.0	.0	.9	.8	.7	.7	.9	.9	1.0	.9	.1	.0	.0	319	.8	6.1
3	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.7	.8	.9	.8	1.0	.9	.9	.1	.0	.0	322	.9	6.2
2	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.9	.9	1.1	1.0	1.3	1.1	.3	.1	.0	.0	656	.6	8.6
1	.0	.0	.0	.0	.0	.0	.0	.0	.8	.9	.8	1.0	1.1	1.4	1.0	.2	.0	.0	.0	648	.8	7.2
0	.0	.0	.0	.0	.0	.0	.0	.1	2.4	1.2	.9	1.2	.9	1.1	1.0	.7	.1	.0	.0	617	.6	8.9
-1	.0	.0	.0	.0	.0	.0	.0	.2	1.1	.3	.7	.6	.6	.6	.3	.0	.0	.0	.0	374	.3	4.7
-2	.0	.0	.0	.0	.0	.0	.0	1.1	1.0	.8	.6	.5	.5	.4	.2	.1	.0	.0	.0	316	.4	5.0
-3	.0	.0	.0	.0	.0	.0	.0	.8	.5	.4	.5	.4	.4	.2	.1	.0	.0	.0	.0	240	.3	3.3
-4	.0	.0	.0	.0	.0	.0	.1	1.6	.9	.7	.5	.2	.2	.1	.0	.0	.0	.0	.0	212	.1	4.5
-5	.0	.0	.0	.0	.0	.0	.5	.7	.4	.4	.3	.2	.1	.1	.0	.0	.0	.0	.0	148	.0	2.8
-6	.0	.0	.0	.0	.0	.0	.9	.3	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	84	.0	2.1
-7/-8	.0	.0	.0	.0	.1	1.8	.7	.6	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	155	.1	4.1
-9/-10	.0	.0	.0	.0	.8	.7	.8	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	.0	3.0
-11/-13	.0	.0	.0	.0	2.6	1.0	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	.0	4.4
-14/-16	.0	.0	.0	1.2	1.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	.0	3.0
-17/-19	.0	.0	.6	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	.0	1.7
-20/-22	.0	.3	.6	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.0	1.4
-23/-25	.1	.7	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	1.3
-26/-30	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	.5
<-30	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1	.1
TOTAL																				6047		
PCT	.7	1.0	1.8	2.4	5.0	9.5	7.0	10.0	10.1	8.3	8.2	9.1	8.9	9.9	7.7	3.4	.8	.2	.1	100.0	6.5	93.5

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.7	.4	.0	.0	.0	1.2	.2	.7	.0	.0	.0	.0	.9
1-2	.2	1.1	.7	.0	.0	.0	2.0	.1	.4	.4	.0	.0	.0	1.0
3-4	.0	.5	2.4	.4	.0	.0	3.3	.0	.4	1.1	.4	.0	.0	1.9
5-6	.0	.2	.7	.7	.0	.0	1.6	.0	.0	.6	.4	.0	.0	1.2
7	.0	.0	.2	.2	.7	.0	.6	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.3	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.6	4.3	1.5	.4	.0	9.1	.3	1.6	2.2	1.6	.4	.2	6.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	1.7	.5	.0	.0	.0	2.3	.5	1.2	.0	.0	.0	.0	1.7
1-2	.1	1.3	1.2	.0	.0	.0	2.6	.0	2.0	1.0	.0	.0	.0	3.1
3-4	.0	.4	1.6	.5	.0	.0	2.5	.0	.6	.9	.5	.0	.0	2.0
5-6	.0	.1	.6	.4	.2	.0	1.2	.0	.1	.6	.2	.0	.0	.9
7	.0	.0	.1	.2	.2	.0	.6	.0	.0	.1	.2	.0	.0	.3
8-9	.0	.0	.0	.2	.1	.0	.4	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.3	4.1	1.3	.8	.0	9.8	.6	3.9	2.7	1.1	.1	.0	8.3

PERIOD: (OVER-ALL) 1963-1971

ANNUAL

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49.5N 62.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	1.3	.2	.0	.0	.0	1.6	.3	1.1	.1	.0	.0	.0	1.5
1-2	.1	1.7	1.6	.0	.0	.0	3.4	.1	1.4	1.0	.0	.0	.0	2.5
3-4	.0	.7	1.2	.6	.0	.0	2.4	.1	.9	1.3	.2	.0	.0	2.4
5-6	.0	.1	.7	.2	.0	.0	1.1	.7	.1	.8	.1	.0	.0	.9
7	.0	.0	.5	.2	*	.0	.7	.0	.1	.1	.3	*	.0	.5
8-9	.0	.0	.2	*	*	.0	.3	.0	*	*	.1	.0	.0	.2
10-11	.0	.0	.0	*	.0	.0	*	.0	.0	*	*	.0	.0	.1
12	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	*	.0	*
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	*	.0	*
17-19	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.8	4.3	1.4	.1	.0	9.8	.5	3.3	3.4	.7	.1	.0	8.1

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.7	1.8	.4	.0	.0	.0	2.7	.2	1.5	*	.0	.0	.0	1.7
1-2	.1	3.6	2.7	.0	.0	.0	6.4	.5	2.4	1.9	.0	.0	.0	4.8
3-4	.1	2.1	3.6	1.1	.0	.0	6.8	.0	1.3	4.1	1.2	.0	.0	6.7
5-6	.0	.1	1.5	1.0	.2	.0	2.7	.0	*	3.2	1.9	.6	.0	5.7
7	.0	.0	.4	.8	.3	.2	1.7	.0	.0	.7	.7	.2	.1	1.6
8-9	.0	.0	.1	.3	.1	.0	.5	.0	.0	*	.8	.8	.0	1.7
10-11	.0	.0	.0	.5	.1	.0	.6	.0	.0	.0	.1	.1	.0	.2
12	.0	.0	.0	.3	.3	.1	.7	.0	.0	.0	.1	.2	.0	.2
13-16	.0	.0	.0	*	.1	.0	.1	.0	.0	*	*	.1	.0	.2
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	*	*	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	7.4	8.7	4.0	1.3	.4	22.6	.6	5.3	9.9	4.8	2.0	.1	22.7 96.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.0	9.7	1.5	.0	.0	.0	18.1	
1-2	1.3	13.9	10.4	.0	.0	.0	25.6	
3-4	.2	8.6	15.9	4.7	.0	.0	27.4	
5-6	.0	.7	8.5	4.8	1.0	.0	15.0	
7	.0	.1	1.9	4.0	1.0	.3	6.2	
8-9	.0	*	.5	1.7	1.2	.0	3.5	
10-11	.0	.0	*	.8	.4	.0	1.3	
12	.0	.0	*	.6	.9	.1	1.7	
13-16	.0	.0	*	.4	.2	.0	.6	
17-19	.0	*	.0	.0	.1	.0	.2	
20-22	.0	.0	.0	.0	.0	.3	.3	
23-25	.0	.0	.0	.0	*	*	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.3	31.1	38.8	16.0	4.9	.7	100.0	1863

PERIOD: (OVER-ALL) 1950-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.1	18.8	20.5	8.7	3.3	1.4	.1	.4	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1461	3
6-7	.1	.9	3.9	6.6	2.7	2.3	.9	.7	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	425	6
8-9	.0	.5	.2	.9	1.1	.5	.5	.3	.0	*	.3	.0	.0	.0	.0	.0	.0	.0	.0	104	7
10-11	.0	.1	.1	*	.1	.1	.2	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	33	9
12-13	.0	.0	.1	*	*	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
>13	.0	.0	.0	.1	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
TOTDET	9.9	3.2	2.5	1.1	.6	.1	.3	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	500	2
TOTAL PCT	16.0	23.4	27.2	15.5	7.9	4.5	2.1	2.0	.7	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	2538	3

PERIOD: (PRIMARY) 1921-1971
(OVER-ALL) 1864-1971

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TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0
67/68	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	6	.1
65/66	.0	.0	.0	.0	.0	.0	.2	.7	.1	.0	.0	.0	11	.2
63/64	.0	.0	.0	.0	.0	.2	2.2	2.0	.1	.0	.0	.0	48	.7
61/62	.0	.0	.0	.0	.0	.3	2.5	5.0	.5	.0	.0	.0	89	1.3
59/60	.0	.0	.0	.0	.0	.2	7.4	10.3	1.5	.0	.0	.0	210	3.1
57/58	.0	.0	.0	.0	.0	1.2	11.0	19.2	5.0	.1	.0	.0	293	5.9
55/56	.0	.0	.0	.0	.9	2.4	17.5	21.9	11.5	.6	.2	.0	583	8.6
53/54	.0	.0	.0	.0	.2	4.8	19.5	17.6	18.2	.9	.3	.0	648	9.6
51/52	.0	.0	.0	.0	.7	11.4	14.2	10.4	17.1	3.3	.2	.0	570	8.5
49/50	.0	.0	.0	.6	.4	14.7	13.1	6.3	18.0	7.6	.2	1.1	595	8.8
47/48	.0	.0	.0	.6	1.1	15.2	6.6	3.6	11.1	12.8	.5	.6	482	7.2
45/46	.0	.0	.0	.6	5.6	20.0	2.6	1.5	6.5	20.0	5.1	1.1	530	7.9
43/44	.0	.0	.0	.6	8.1	14.4	1.6	.5	4.7	20.5	10.6	.0	491	7.3
41/42	.0	.0	.0	2.4	15.5	7.7	.8	.5	3.4	18.2	14.5	1.7	463	6.9
39/40	.0	.0	1.1	1.2	18.7	5.5	.4	.0	1.8	10.0	21.8	7.5	396	5.9
37/38	.0	2.3	1.1	4.7	24.9	2.0	.1	.0	.4	4.6	21.6	11.5	339	5.0
35/36	2.9	2.3	1.1	12.9	15.3	.2	.0	.0	.1	1.0	12.8	26.4	232	3.4
33/34	15.7	3.8	4.2	27.1	6.1	.0	.0	.0	.0	.3	7.4	33.9	204	3.0
31/32	38.7	7.5	12.6	32.9	2.2	.0	.0	.0	.0	.1	2.4	10.9	161	2.4
29/30	42.2	82.7	76.8	15.9	.2	.0	.0	.0	.0	.0	1.4	4.0	269	4.0
27/28	1.0	1.5	3.2	.6	.0	.0	.0	.0	.0	.0	1.1	.9	9	.1
25/26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
23/24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
21/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
19/20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
17/18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
15/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
13/14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
11/12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
5/6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
3/4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	102	133	95	170	445	660	1073	1097	1105	1085	592	174	6731	100.0
MEAN	31.7	29.8	30.0	33.4	39.2	46.8	53.5	55.2	50.6	44.1	39.0	35.1	40.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1014	1012	1010		1010	1006	1013	1011	1011	139
FEB	1012	1012	1011		1010	1008	1007	1010	1010	234
MAR	1014	1012	1015	1033	1011	1011	1013	1013	1013	158
APR	1013	1015	1017	1019	1013	1017	1014	1014	1014	190
MAY	1014	1015	1012	1013	1011	1016	1013	1013	1013	398
JUN	1011	1012	1012	1010	1012	1009	1011	1010	1011	619
JUL	1011	1010	1011	1010	1011	1010	1012	1011	1011	992
AUG	1011	1012	1011	1014	1013	1012	1011	1011	1012	971
SEP	1011	1014	1014	1014	1014	1013	1014	1012	1014	956
OCT	1012	1013	1012	1012	1012	1013	1012	1009	1012	1014
NOV	1015	1015	1012	1015	1013	1012	1014	1014	1014	608
DEC	1012	1019	1010	1008	1015	1022	1012	1014	1012	203
ANN	1013	1013	1012	1015	1012	1012	1012	1012	1012	6482
OBS	1418	375	1053	284	1394	378	1190	390		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	972	981	989	1002	1012	1021	1028	1037	1039
FEB	970	976	985	999	1011	1019	1031	1036	1040
MAR	979	981	995	1004	1013	1021	1031	1035	1036
APR	984	997	995	1008	1015	1021	1027	1030	1034
MAY	993	994	1000	1008	1013	1018	1025	1031	1033
JUN	987	993	1000	1007	1012	1016	1022	1026	1030
JUL	985	991	999	1006	1011	1016	1022	1027	1030
AUG	982	992	1000	1008	1012	1016	1021	1026	1029
SEP	983	991	1000	1008	1014	1021	1027	1031	1034
OCT	976	982	991	1005	1013	1020	1027	1031	1034
NOV	972	983	994	1006	1016	1022	1031	1036	1040
DEC	980	980	987	1004	1013	1021	1032	1036	1037